SEARCH REQUEST FORM Access DB# 1/9/38

Scientific and Technical Information Center

		(3)(6)
Requester's Full Name: MOLL	Number 3A=777-08	Examiner #: 59757 Date: 02/24/04 Serial Number: 10/046 730 (Parlus & /61404)
Mail Box and Bldg/Room Locati	on: $\frac{10m3A51}{10m3A51}$ Res	sults Format Preferred (circle) PAPER DISK E-MAIL
17 Rem 3070		
If more than one search is sub	mitted, please prioriti	ze searcnes in order of freed. ***********************************
Please provide a detailed statement of the Include the elected species or structures	ne search topic, and describe i, keywords, synonyms, acro ns that may have a special m	eas specifically as possible the subject matter to be searched. Somms, and registry numbers, and combine with the concept or neghing. Give examples or relevant citations, authors, etc, if
Title of Invention:	- Dio Gar	- Leave
Inventors (please provide full names)	:	
	The pro-	
Earliest Priority Filing Date:	01/17/02	
For Sequence Searches Only Please incappropriate serial number.	lude all pertinent information	(parent, child, divisional, or issued patent numbers) along with the
a in combination dioxetane, hydrogel crosslinked with	with each of L, copolegmen of ethylenediamie ium compoun 2,780,604; 3,1 4,424,326.	ernary onium polymen of claim The terms: chemiluminase?, of dimethylacrylamide and vinylaglactor ne, wolld support, polyamide. Hood Whylacrylamide 100 (1) NH Whylacrylamide 100
***************** STAFF USE ONLY Searcher: Searcher Phone #: Searcher Location: Date Searcher Picked Up: Date Completed: Searcher Prep & Review Time:	Type of Search NA Sequence (#) AA Sequence (#) Structure (#) Bibliographic Litigation Fulltext	Vendors and cost where applicable STN 556.54 Dialog Questel/Orbit Dr.Link
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: 33	Other	Other (specify)

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FILE COVERS 1907 - 2 Mar 2004 VOL 140 ISS 10 FILE LAST UPDATED: 1 Mar 2004 (20040301/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

VAR G1=N/P VAR G2=AK/CB VPA 16-12/13/14 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 15 CONNECT IS E2 RC AT 16 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L18893 SEA FILE=REGISTRY SSS FUL L7 AND L17

£23 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND CHEMILUM?

=> d que 126 L7SCR 2040

VAR G1=N/P VAR G2=AK/CB VPA 16-12/13/14 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 15 CONNECT IS E2 RC AT 16 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

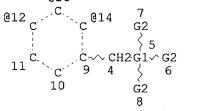
STEREO ATTRIBUTES: NONE

L18 893 SEA FILE=REGISTRY SSS FUL L7 AND L17

1 SEA FILE=REGISTRY ABB=ON PLU=ON DIOXETANE/CN L24

2 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L24 OR ?DIOXETAN?) .L26

=> d que 128 L7 SCR 2040 L17 STR @13 C==C 15 @16



VAR G1=N/P VAR G2=AK/CB VPA 16-12/13/14 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 15 CONNECT IS E2 RC AT 16 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

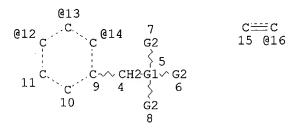
L18 893 SEA FILE=REGISTRY SSS FUL L7 AND L17

L27

5404 SEA FILE=HCAPLUS ABB=ON PLU=ON HYDROGELS+OLD/CT
12 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L27 OR HYDROGEL?) L28

=> d que 132

SCR 2040 L7 L17 STR



VAR G1=N/P VAR G2=AK/CB VPA 16-12/13/14 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 15 CONNECT IS E2 RC AT 16 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L18 893 SEA FILE=REGISTRY SSS FUL L7 AND L17

L29 1 SEA FILE=REGISTRY ABB=ON PLU=ON "DIMETHYLACRYLAMIDE HOMOPOLYM

ER"/CN

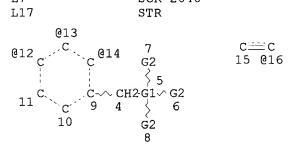
3194 SEA FILE=REGISTRY ABB=ON PLU=ON 2680-03-7/CRN L30

L31 1 SEA FILE=REGISTRY ABB=ON PLU=ON 2680-03-7

20 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L29 OR L30 OR L31) L32

=> d que 135

SCR 2040 STR



VAR G1=N/P VAR G2=AK/CB VPA 16-12/13/14 U NODE ATTRIBUTES:

CONNECT IS E1 RC AT 15 CONNECT IS E2 RC AT 16 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L18 893 SEA FILE=REGISTRY SSS FUL L7 AND L17

1 SEA FILE=REGISTRY ABB=ON PLU=ON ETHYLENEDIAMINE/CN

L34 6515 SEA FILE=REGISTRY ABB=ON PLU=ON 107-15-3/CRN

L35 5, SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L33 OR L34)

VAR G1=N/P
VAR G2=AK/CB
VPA 16-12/13/14 U
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 15
CONNECT IS E2 RC AT 16
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L18 893 SEA FILE=REGISTRY SSS FUL L7 AND L17

141 4 \$EA FILE=HCAPLUS ABB=ON PLU=ON L18 AND SOLID AND SUPPORT

=> d que 145

L7 SCR 2040 L17 STR

VAR G1=N/P VAR G2=AK/CB VPA 16-12/13/14 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 15 CONNECT IS E2 RC AT 16 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L18 893 SEA FILE=REGISTRY SSS FUL L7 AND L17

92421 SEA FILE=HCAPLUS ABB=ON PLU=ON POLYAMIDES+OLD/CT
12 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND L44 L44

=> s 123 or 126 or 128 or 132

36 L23 OR L26 OR L28 OR L32

=> s 123 or 126 or 128 or 132 or 135 or 141 or 145

L47 54 L23 OR L26 OR L28 OR L32 OR L35 OR L41 OR L45

=> d 147 ibib ab hitind hitstr 1-54 /

L47 ANSWER 1 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:633087 HCAPLUS

DOCUMENT NUMBER: 139:181832

TITLE: Paperboard for coated food containers having improved

tactile and bulk insulation properties

INVENTOR(S): Swoboda, Dean P.; Swiontek, Anthony J.; Hartjes,

Timothy P.; Shanton, Kenneth J.; Sandstrom, Erland R.

Fort James Corporation, USA PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 108 pp., Cont.-in-part of U.S. SOURCE:

Ser. No. 18,563.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
US 2003152724	A1	20030814	US 2002-236347 2002090)6
PRIORITY APPLN. INFO.	:		US 1997-806947 B2 1997022	26

US 1998-18563 A2 19980204

- AB Paperboard for coated food containers with the title properties contain bulk-enhancing additives such as (coated) microspheres and chem. or thermally treated cellulose fibers, and high-bulk additive fibers. An example of a bulk-enhanced paper was based on 75% hardwood kraft fibers and 25% softwood kraft fibers and contained Apollo 600 (cationic starch) 12, Neuphor 635 (rosin size)6, Reten 203 (poly-DADMAC) retention agent 2, and Expancel 820 (microspheres) 80 lb/ton.
- IC ICM B32B001-02
- NCL 428034200; 428143000
- CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
 Section cross-reference(s): 17
- IT107-06-2D, 1,2 Dichloroethane, reaction products with amines 107-15-3D, Ethylenediamine, reaction products with bishalo, bisepoxides or chlorohydrin compds. 111-40-0D, Diethylenetriamine, reaction products with bishalo, bisepoxides or chlorohydrin compds. 112-24-3D, reaction products with bishalo, bisepoxides or chlorohydrin 1888-89-7D, 1,2,5,6-Diepoxyhexane, reaction products with amines 4075-28-9D, 2-Chloromethyl-1,3-butadiene, reaction products with dialkyl 7446-70-0, Aluminum chloride, uses 9002-98-6, Polymin PR 971L 25988-97-0, Dimethylamine-epichlorohydrin copolymer 10043-01-3, Alum 26780-21-2, Poly(4-ethenylbenzyltrimethylammonium chloride) 27026-90-0, Formaldehyde-quanidine copolymer 51838-31-4, Poly(2,3-epoxypropyltrimethylammonium chloride) 54076-97-0, Poly(acryloyloxyethyltrimethylammonium chloride) 578725-13-0 578725-14-1
 - RL: FFD (Food or feed use); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (retention agent/coagulation agent; paperboard contg. bulk-enhancing additives for coated food containers with improved tactile and bulk insulation properties)
- IT 107-15-3D, Ethylenediamine, reaction products with bishalo, bisepoxides or chlorohydrin compds. 26780-21-2, Poly(4-ethenylbenzyltrimethylammonium chloride)
 - RL: FFD (Food or feed use); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (retention agent/coagulation agent; paperboard contg. bulk-enhancing additives for coated food containers with improved tactile and bulk insulation properties)
- RN 107-15-3 HCAPLUS
- CN 1,2-Ethanediamine (9CI) (CA INDEX NAME)

 $H_2N-CH_2-CH_2-NH_2$

- RN 26780-21-2 HCAPLUS
- CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7

CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 CH
 CH

● cl -

L47 ANSWER 2 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:467351 HCAPLUS

DOCUMENT NUMBER: 139:44223

TITLE: Light-sensitive composition suitable as photoresist

composition for fabricating lithographic printing

plate, printed circuit, and color filter

INVENTOR(S): Furukawa, Akira; Doi, Kunihiro

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

SOURCE: Ger. Offen., 48 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
DE 10250626	A 1	20030618	DE 2002-10250626 20021030
JP 2003215801	A2	20030730	JP 2002-295956 20021009
US 2003190548	A 1	20031009	US 2002-283071 20021030
PRIORITY APPLN. INFO.:	:	Í	JP 2001-334340 A 20011031
		Í	JP 2002-295956 A 20021009

- AB The title light-sensitive compn. comprises (A) at least one water-sol. polymer, selected from a cationic water-sol. polymer with a vinyl group-substituted Ph group in its side chain and a water-sol. polymer with a vinyl group-substituted Ph group and a sulfonate group in its side chain, and (B) at least one compd. selected from photopolymn. initiator and one photoacid generator. The photopolymn. initiator is a trihaloalkyl-substituted compd. and/or a org. borate.
- IC ICM G03F007-004 ICS C08F226-00; C08F228-00; C08F212-08; C08F218-00; C08F220-00
- CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 38
- TT 7538-39-8 **14350-43-7** 25213-24-5D, Vinyl acetate-vinyl alcohol copolymer, acetals 54675-97-7 70818-22-3D, acetals with vinyl alc. polymers 94228-86-1 128738-52-3 132790-22-8 232599-55-2 **540742-46-9 540742-48-1** 540742-50-5 540742-51-6

540742-46-9 540742-48-1 540742-50-5 540742-51-6 540742-52-7 540742-53-8 540742-54-9 540742-55-0

540742-59-4 540742-63-0 540742-65-2D, acetals with vinyl alc. polymers RL: TEM (Technical or engineered material use); USES (Uses)

(in light-sensitive compn. suitable as photoresist compn. for

fabricating lithog. printing plate, printed circuit, and color filter)

IT 25232-41-1DP, Poly(4-vinylpyridine), reaction products with

4-chloromethylstyrene 25232-41-1DP, Poly(4-vinylpyridine), reaction

products with 4-chloromethylstyrene, methylated 100243-82-1DP, N,N-Dimethylacrylamide-4-vinylpyridine copolymer, reaction products with 4-chloromethylstyrene

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(light-sensitive compn. suitable as photoresist compn. for fabricating lithog. printing plate, printed circuit, and color filter)

IT 14350-43-7 540742-46-9 540742-48-1

540742-54-9 540742-55-0

RL: TEM (Technical or engineered material use); USES (Uses) (in light-sensitive compn. suitable as photoresist compn. for fabricating lithog. printing plate, printed circuit, and color filter) 14350-43-7 HCAPLUS

RN 14350-43-7 HCAPLUS
CN Benzenemethanaminium, 4-ethenyl-N,N,N-triethyl-, chloride (9CI) (CA INDEX NAME)

● C1-

RN 540742-46-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-[3-[(1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N,N-dimethyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 540742-45-8 CMF C17 H25 N2 O . Cl

$$\begin{array}{c|c} CH = CH_2 \\ \hline \\ H_2C = CH - C - NH - (CH_2) 3 - N + CH_2 \\ \hline \\ Me \end{array}$$

● C1-

CM 2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 3

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \circ \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \longrightarrow \text{CH}_2 \end{matrix}$$

RN 540742-48-1 HCAPLUS

CN l-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with N,N-dimethyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . C1

$$\begin{array}{c|c}
 & O \\
 & | \\
 & | \\
 & Me_3^+N^- (CH_2)_3^-NH^-C^-CH^- CH_2
\end{array}$$

● cl-

CM 2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

CM 3

CRN 79-06-1 CMF C3 H5 N O

RN 540742-54-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-[(4-ethenylphenyl)methyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

$$H_2C = CH$$
 $CH_2 - N + CH_2$
 $CH = CH_2$
 Me
 Me
 Me
 Me

● Br-

RN 540742-55-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-tris[(4-ethenylphenyl)methyl]-, bromide (9CI) (CA INDEX NAME)

PAGE 1-A

$$H_2C$$
 CH CH_2 CH

PAGE 2-A

● Br-

IT 100243-82-1DP, N, N-Dimethylacrylamide-4-vinylpyridine copolymer,

reaction products with 4-chloromethylstyrene

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(light-sensitive compn. suitable as photoresist compn. for fabricating

lithog. printing plate, printed circuit, and color filter)

RN 100243-82-1 HCAPLUS

CN 2-Propenamide, N,N-dimethyl-, polymer with 4-ethenylpyridine (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

CM 2

CRN 100-43-6 CMF C7 H7 N



L47 ANSWER 3 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:174801 HCAPLUS

DOCUMENT NUMBER: 138:386073

TITLE: Swelling behavior of radiation-polymerized ampholytic

two-component gels: Dynamic and equilibrium swelling

kinetics

AUTHOR(S): Bhardwaj, Y. K.; Kumar, Virendra; Sabharwal, S.

CORPORATE SOURCE: Radiation Technology Development Section, Bhabha

Atomic Research Centre, Mumbai, 400 085, India SOURCE: Journal of Applied Polymer Science (2003), 88(3),

730-742

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Poly-ampholytic hydrogels, with varying degrees of crosslinking and ionic content, were prepd. by radiation polymn. of p-sodium styrene sulfonate (SSS) and vinyl benzyl trimethylammonium chloride (VBT). These gels were investigated for their dynamic and equil. swelling kinetics. Dynamic swelling of these gels established that the gels contg. equal amts. of SSS and VBT strictly follow Fickian diffusion. The

hydrogels contq. excess of SSS followed the case II type of diffusion, whereas those contq. excess of VBT followed anomalous diffusion. Equil. swelling kinetics of these gels in aq. system, ethanol-water mixt., at different pH, and in the presence of solns. of biol. interest was studied. It was seen that gels contg. equal amts. of SSS and VBT show the lowest equil. swelling. Swelling of the ampholytic gel decreased with an increase in the radiation dose imparted and the amt. of crosslinking agent incorporated in the gel. The gels having an excess of VBT showed higher equil. swelling in comparison to those having an excess of SSS. The org. solvents like ethanol cause abrupt collapse of the polyampholyte gels contg. excess of SSS and those contg. equal amts. of both the monomers at some crit. ratio of water and ethanol in swelling medium. However, the de-swelling in the water-ethanol mixt. was gradual for gels contg. an excess of VBT and the extent of de-swelling was also low for these gels in comparison to other gels. The swelled gels of all compns. de-swelled when they were transferred to solns. at pH in the range 2-12. Biol. important solutes like urea, glucose, and surfactants like Triton-X tend to further swell the polymer matrixes, whereas NaCl causes their de-swelling. The additive effect is more prominent for polyampholyte gels contg. excess of either of the monomers. 36-7 (Physical Properties of Synthetic High Polymers) Section cross-reference(s): 9

CC

STswelling kinetics diffusion hydrogel radiation crosslinking simulation

IT Diffusion

Hydrogels

Simulation and Modeling, physicochemical

(swelling of radiation-polymd. ampholytic two component gels)

IT 213338-48-8 237769-99-2, Sodium p-styrenesulfonate-4vinylbenzyl trimethylammonium chloride copolymer RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)

(swelling of radiation-polymd. ampholytic two component gels)

IT 213338-48-8 237769-99-2, Sodium p-styrenesulfonate-4vinylbenzyl trimethylammonium chloride copolymer RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)

(swelling of radiation-polymd. ampholytic two component gels)

RN 213338-48-8 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and sodium 4-ethenylbenzenesulfonate (9CI) (CA INDEX NAME)

CM

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3+N-CH_2$$
 $CH=CH_2$

● Cl-

CM 2

CRN 2695-37-6 CMF C8 H8 O3 S . Na

Na

CM 3

CRN 110-26-9 CMF C7 H10 N2 O2

$$\begin{array}{c} {\rm O} & {\rm O} \\ \parallel & \parallel \\ {\rm H}_2{\rm C} = {\rm CH} - {\rm C} - {\rm NH} - {\rm CH}_2 - {\rm NH} - {\rm C} - {\rm CH} = {\rm CH}_2 \end{array}$$

RN 237769-99-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with sodium 4-ethenylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● c1-

CM 2

CRN 2695-37-6 CMF C8 H8 O3 S . Na

Na

REFERENCE COUNT:

THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 4 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:146468 HCAPLUS

DOCUMENT NUMBER:

138:182488

TITLE:

Quaternary ammonium group-containing antimicrobial

polymers and gels from the polymers

INVENTOR(S):

Masui, Nobuaki; Deguchi, Shigeru; Tsujii, Kaoru;

Horikoshi, Hirotake

PATENT ASSIGNEE(S):

Japan Marine Science and Technology Center (Jamstec),

Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2003055108 A2 20030226 JP 2001-247124 20010816
PRIORITY APPLN. INFO.: JP 2001-247124 20010816

OTHER SOURCE(S): MARPAT 138:182488

AB The antimicrobial polymers are manufd. by copolymg. CH2:CHC6H4CH2N+Me2R1 X- (R1 = C1-18 linear or branched alkyl; X- = counter ion) with copolymerizable monomers. The gels are manufd. by gelling the above polymers with H2O. Vinylbenzyldimethylhexadecylammonium chloride (prepn.

given) was polymd. with acrylamide and N,N'-methylenebisacrylamide to give copolymer. Hydrogel of the copolymer showed good antimicrobial effect against Escherichia coli, Pseudomonas aeruginosa, Saccharomyces cerevisiae, etc.

IC ICM A01N033-12

ICS A01N025-04; A01N025-10; A01N037-18; A01N037-26; A61L015-00; A61P029-00; C08F212-14; C08F220-56; A61F013-15; A61F013-472

CC 5-2 (Agrochemical Bioregulators)

Section cross-reference(s): 10, 38

IT Antibacterial agents

Fungicides

Hydrogels

(prepn. of quaternary ammonium group-contg. antimicrobial polymers and gels from the polymers)

IT 499136-69-5P 499136-70-8P 499136-72-0P

499136-73-1P 499136-74-2P

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of quaternary ammonium group-contg. antimicrobial polymers and gels from the polymers)

IT 87810-16-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of quaternary ammonium group-contg. antimicrobial polymers and gels from the polymers)

IT 499136-69-5P 499136-70-8P 499136-72-0P

499136-73-1P 499136-74-2P

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of quaternary ammonium group-contg. antimicrobial polymers and gels from the polymers)

RN 499136-69-5 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-hexadecyl-N,N-dimethyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 87810-16-0 CMF C27 H48 N . Cl

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Me} \end{array}$$

• cl-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM 3

CRN 79-06-1 CMF C3 H5 N O

RN 499136-70-8 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-octyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 98473-87-1 CMF C19 H32 N . Cl

$$\begin{array}{c} \text{Me} \\ \downarrow \\ \text{Me} \\ \downarrow \\ \text{Me} \end{array} \begin{array}{c} \text{CH}_2 \\ \downarrow \\ \text{Me} \end{array}$$

● cl-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM3

CRN 79-06-1 CMF · C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

RN499136-72-0 HCAPLUS

CNBenzenemethanaminium, N-decyl-4-ethenyl-N, N-dimethyl-, chloride, polymer with N, N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

499136-71-9 CRN CMF C21 H36 N . Cl

Me
$$CH = CH_2$$

Me CH_2

Me CH_2

Me CH_2

Me CH_2

● cl-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM3

CRN 79-06-1

CMF C3 H5 N O

RN 499136-73-1 HCAPLUS

CN Benzenemethanaminium, N-dodecyl-4-ethenyl-N,N-dimethyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 56307-84-7 CMF C23 H40 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Me} - (\text{CH}_2)_{11} - \text{N} + \text{CH}_2 \\ \text{Me} \end{array}$$

● cl-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM 3

CRN 79-06-1 CMF C3 H5 N O

RN 499136-74-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-tetradecyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 48214-34-2 CMF C25 H44 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Me}-\text{(CH}_2)_{13}-\text{N} \\ \text{Ne} \\ \text{Me} \end{array} \\ \text{CH} = \text{CH}_2$$

• c1-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM 3

CRN 79-06-1 CMF C3 H5 N O

IT 87810-16-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of quaternary ammonium group-contg. antimicrobial polymers and gels from the polymers)

RN 87810-16-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

Me
$$(CH_2)_{15}$$
 N_+ CH_2 Me CH CH_2

● cl-

L47 ANSWER 5 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:833427 HCAPLUS

DOCUMENT NUMBER: 137:354035

TITLE: Method of transferring molecules to a coated film

laminate having an ionic surface

INVENTOR(S): Coleman, Patrick L.; Halverson, Kurt J.; Hembre, James

I.; Patil, Sanjay L.; Prabhu, Anila; Rajagopal, Raj; Rasmussen, Jerald K.; Swenson, Barbara C.; Quint,

Patrick S.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: U.S. Pat. Appl. Publ., 14 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	N	10.		KII	ND	DATE			A	PPLI	CATI	ои ис	ο.	DATE			
US	200	21	.605	30	A	1	2002	1031		U:	3 200	01-8	4588	0	2001	0430		
WO	200	20	888	39	A.	2	2002	1107		W	200	ວ2−ບ:	S550	5	2002	0214		
WO	200	20	8883	39	A.	3	2003	0403										
	W:		ΑE,	AG,	AL,	AM,	AT,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,
			CN,	co,	CR,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EE,	EE,	ES,
			FI,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,
			KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,
			MX,	MZ,	NO,	NZ,	OM,	PH,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SK,
			SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	UZ,	VN,	ΥU,	ZA,	ZM,	zw	
	RW	:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪG,	ZM,	ZW,	AM,	AZ,	BY,
			KG,	KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,
			GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,
			GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG							
RIORIT	Y AP	PI	N.	INFO	. :	-			Ţ	US 20	001-8	3458	30	Α	2001	0430		
.B Th	e in	ve	ntic	on co	once	rns :	meth	ods (of t	rans	ferr:	ing r	nols	. fr	om a	mat	rix 1	to a

The invention concerns methods of transferring mols. from a matrix to a coated laminate having an ionic surface are disclosed. The laminate includes a shrinkable substrate such as a polyethylene shrink film. The laminate also includes an ionic coating layer. The coating layer may include, for example, one or more ionic polymers, a hydrogel including hydrolyzed azlactone moieties, bifunctional mols. affixed to a hydrogel, or a hydrogel with an overcoating of one or more ionic polymers. The laminate also may include one or more mask layers affixed, directly or indirectly, to the substrate. Sample mols. may be transferred from the matrix to the laminate by an

Ceperley 10/046,730 energy-independent process or by a process that is energy-dependent, such as electroblotting. Because the laminate is shrinkable, sample mols. that have been transferred to the laminate may be concd. for use in a miniaturized assay. ICM G01N033-543 NCL 436518000 38-3 (Plastics Fabrication and Uses) Section cross-reference(s): 9 Coating materials Coupling agents Electrophoresis Films Heat-shrinkable films Hydrogels Laminated materials (method of transferring mols. to a coated film laminate having an ionic surface) Amino acids, uses Azlactones Polyamides, uses Polyamines RL: DEV (Device component use); USES (Uses) (method of transferring mols. to a coated film laminate having an ionic surface) 100-43-6, 4-Vinylpyridine 100-69-6, 56-87-1, Lysine, uses 2-Vinylpyridine 105-16-8, 2-Diethylaminoethyl methacrylate 107-11-9, Allylamine 151-56-4, Ethylene imine, uses 593-67-9, Vinylamine 1121-55-7, 3-Vinylpyridine 1746-03-8, Vinylphosphonic acid 2426-54-2, 2-Diethylaminoethyl acrylate 2439-35-2, Dimethylaminoethyl acrylate

IT 2817-45-0, Aminophosphonic acid 2867-47-2, Dimethylaminoethyl 3402-98-0, Iduronic acid 3845-76-9 methacrylate 5039-78-1 5329-14-6, Aminosulfonic acid 7398-69-8, Diallyldimethylammonium chloride 7538-38-7, 4-Vinylbenzyltrimethylammonium chloride 7659-36-1, 2-Aminoethyl methacrylate 9002-86-2, Polyvinyl 7582-21-0 chloride 9004-32-4, Carboxymethylcellulose 9005-32-7, Alginic acid 9005-49-6, Heparin, uses 9012-36-6, Agarose 9012-76-4, Chitosan 9042-14-2, Dextran sulfate 10595-80-9, Sulfoethyl methacrylate 13052-11-4, 3-Methacryloxy-2-hydroxypropyltrimethylammonium chloride 13081-44-2 15214-89-8, 2-Acrylamido-2-methyl-1-propanesulfonic acid 18526-07-3, 3-Dimethylaminopropyl acrylate 20602-77-1, 3-Dimethylaminopropyl methacrylate 24615-84-7, 2-Carboxyethyl acrylate 26913-06-4, Poly[imino(1,2-ethanediyl)] 24967-94-0, Dermatan sulfate 26914-43-2, Styrenesulfonic acid 32120-16-4, Monoacryloxyethyl phosphate 45021-77-0, (3-Acrylamidopropyl) trimethylammoniu 36885-49-1 44992-01-0 86742-39-4 45708-76-7 154086-50-7 m chloride RL: DEV (Device component use); USES (Uses)

(method of transferring mols. to a coated film laminate having an ionic surface)

7538-38-7, 4-Vinylbenzyltrimethylammonium chloride IT RL: DEV (Device component use); USES (Uses)

(method of transferring mols. to a coated film laminate having an ionic surface)

7538-38-7 HCAPLUS RN

TC:

CC

TΤ

IT

Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride (9CI) (CA CN INDEX NAME)

$$Me3^+N-CH_2$$
 $CH=CH_2$

● Cl -

L47 ANSWER 6 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:684363 HCAPLUS

DOCUMENT NUMBER: 137:385158

TITLE: Humidity response of gel polyelectrolyte based on

crosslinked copolymers containing both ammonium salt

and amine function

AUTHOR(S): Gong, Myoung-Seon; Lee, Chil-Won

CORPORATE SOURCE: Department of Chemistry, Dankook University, Chungnam,

330-714, S. Korea

SOURCE: Materials Chemistry and Physics (2003), 77(3), 719-725

CODEN: MCHPDR; ISSN: 0254-0584

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

4-Vinylbenzyl-di-Me-2-(dimethylamino)ethylammonium chloride monomer was prepd. and copolymd. with Bu acrylate and the copolymer was treated with 1,5-dibromopentane to obtain polyelectrolyte derivs. with two ammonium groups, one of them bridging (crosslinking) two chains. The isothermal absorption of moisture of the polyelectrolytes was measured. The crosslinked copolymer with 2:1 comonomer ratio has av. impedance of 715, 42.1, and 3.1 k.OMEGA. under 30, 60 and 90% RH, resp. The hysteresis, temp. dependence, frequency dependence, and response time of impedance were measured to establish the viability of the polyelectrolyte gels for use as humidity sensor.

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 36, 76

IT Electric impedance

Hydrogels

Polyelectrolytes

(prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity toward use in sensors)

IT 312539-11-0P, 4-Vinylbenzyl dimethyl 2-

(dimethylamino)ethylammonium chloride

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(monomer; prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity toward use in sensors)

IT 475672-31-2P, Butyl acrylate-4-vinylbenzyl-dimethyl-2-

(dimethylamino)ethylammonium chloride copolymer

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity

toward use in sensors)

IT 475672-33-4P, Butyl acrylate-4-vinylbenzyl-dimethyl-2- (dimethylamino)ethylammonium chloride copolymer, compd. with

1,5-dibromopentane

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity toward use in sensors)

IT 312539-11-0P, 4-Vinylbenzyl dimethyl 2-

(dimethylamino)ethylammonium chloride

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(monomer; prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity toward use in sensors)

RN 312539-11-0 HCAPLUS

CN Benzenemethanaminium, N-[2-(dimethylamino)ethyl]-4-ethenyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{N} + \text{CH}_2 \\ \text{Me} \end{array}$$

● c1-

IT 475672-31-2P, Butyl acrylate-4-vinylbenzyl-dimethyl-2-

(dimethylamino)ethylammonium chloride copolymer

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity toward use in sensors)

RN 475672-31-2 HCAPLUS

CN Benzenemethanaminium, N-[2-(dimethylamino)ethyl]-4-ethenyl-N,N-dimethyl-, chloride, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 312539-11-0

CMF C15 H25 N2 . Cl

$$\begin{array}{c} \text{Me} \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{N} + \text{CH}_2 \\ \\ \text{Me} \end{array}$$

● cl-

CM 2

CRN 141-32-2 CMF C7 H12 O2

IT 475672-33-4P, Butyl acrylate-4-vinylbenzyl-dimethyl-2- (dimethylamino)ethylammonium chloride copolymer, compd. with 1,5-dibromopentane

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. of gel acrylate polyelectrolytes contg. ammonium and reactive amine groups and elec. impedance as indicator of response to humidity toward use in sensors)

RN 475672-33-4 HCAPLUS

CN Benzenemethanaminium, N-[2-(dimethylamino)ethyl]-4-ethenyl-N,N-dimethyl-, chloride, polymer with butyl 2-propenoate, compd. with 1,5-dibromopentane (9CI) (CA INDEX NAME)

CM 1

CRN 111-24-0 CMF C5 H10 Br2

Br-(CH₂)₅-Br

CM 2

CRN 475672-31-2

CMF (C15 H25 N2 . C7 H12 O2 . C1) \times

CCI PMS

CM 3

CRN 312539-11-0 CMF C15 H25 N2 . C1

$$\begin{array}{c} \text{Me} \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{N} + \text{CH}_2 \\ \text{Me} \end{array}$$

● c1-

CM

CRN 141-32-2 CMF C7 H12 O2

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 7 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

18

ACCESSION NUMBER:

2000:862955 HCAPLUS

DOCUMENT NUMBER:

134:163400

TITLE:

Preparation of thermosensitive and superabsorbent

polymer hydrogels from trialkyl-4-

vinylbenzyl phosphonium chloride-N-isopropylacrylamide-

N, N'-methylenebisacrylamide copolymers and their

properties

AUTHOR(S):

Nonaka, Takamasa; Watanabe, Tsutomu; Kawabata,

Tadashi; Kurihara, Seiji

CORPORATE SOURCE:

Department of Applied Chemistry and Biochemistry,

Faculty of Engineering, Kumamoto University, Kumamoto,

860-8555, Japan

SOURCE:

Journal of Applied Polymer Science (2000), Volume Date

2001, 79(1), 115-124

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER:

John Wiley & Sons, Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Thermosensitive and superabsorbent polymer hydrogels were synthesized by copolymn. of three kinds of tri-n-alkyl vinylbenzyl phosphonium chlorides (TRVB) with different lengths of alkyl chains, N-isopropylacrylamide (NIPAAm), and N,N'-methylenebisacrylamide (MBAAm). The water-absorption ability and antibacterial activity of the hydrogels against Staphylococcus aureus (S. aureus) were investigated. The water content of TRVB-NIPAAm-MBAAm copolymers decreased with increasing temp. and increased with increasing phosphonium groups in

the copolymers, while it decreased with increasing chain length of the alkyl groups in the phosphonium groups as well as with an increasing degree of crosslinking in the copolymers. The TRVB-NIPAAm-MBAAm copolymers with a higher TRVB content in the copolymers exhibited higher antibacterial activity against S. aureus, but decreased with increasing chain length of alkyl groups in phosphonium groups. The TRVB-NIPAAm-MBAAm copolymers exhibited the highest antibacterial activity at 30.degree.C against S. aureus in deionized water.

CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37, 38

trialkylvinylbenzylphosphonium chloride copolymer hydrogel prepn property; isopropylacrylamide copolymer hydrogel prepn property; methylenebisacrylamide copolymer hydrogel prepn property; heat sensitive phosphonium contg copolymer hydrogel; superabsorbent phosphonium contg copolymer hydrogel; antibacterial activity phosphonium contg copolymer hydrogel

IT Heat-sensitive materials

Hydrogels

IT

Superabsorbents

(prepn. and properties of thermosensitive and superabsorbent hydrogels of trialkyl-vinylbenzyl phosphonium chloride-isopropylacrylamide-methylenebisacrylamide copolymer)

7732-18-5, Water, processes
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(absorption; prepn. and properties of thermosensitive and superabsorbent hydrogels of trialkyl-vinylbenzyl phosphonium chloride-isopropylacrylamide-methylenebisacrylamide copolymer)

IT 226710-72-1P, N-Isopropylacrylamide-N,N'-methylenebisacrylamide-tributyl-4-vinylbenzyl phosphonium chloride copolymer 226710-74-3P 226710-75-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and water absorption and antibacterial activity of thermosensitive and superabsorbent hydrogels of)

IT 226710-72-1P, N-Isopropylacrylamide-N,N'-methylenebisacrylamidetributyl-4-vinylbenzyl phosphonium chloride copolymer 226710-74-3P 226710-75-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and water absorption and antibacterial activity of thermosensitive and superabsorbent hydrogels of)

RN 226710-72-1 HCAPLUS

CN Phosphonium, tributyl[(4-ethenylphenyl)methyl]-, chloride, polymer with N,N'-methylenebis[2-propenamide] and N-(1-methylethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 87864-42-4 CMF C21 H36 P . Cl

● cl-

CM 2

CRN 2210-25-5 CMF C6 H11 N O

CM 3

CRN 110-26-9 CMF C7 H10 N2 O2

RN 226710-74-3 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trihexyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and N-(1-methylethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 226710-73-2 CMF C27 H48 P . Cl

● cl-

● Cl-

CM 2

CRN 2210-25-5 CMF C6 H11 N O

CM 3

CRN 110-26-9 CMF C7 H10 N2 O2

RN 226710-75-4 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trioctyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and N-(1-methylethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 74443-79-1 CMF C33 H60 P . Cl

$$Me^{-}$$
 (CH₂) 7
 Me^{-} (CH₂) 7 P^{+} CH₂
 Me^{-} (CH₂) 7 CH

● cl-

2 CM

CRN 2210-25-5 CMF C6 H11 N O

CM 3

CRN 110-26-9 CMF C7 H10 N2 O2

$$\begin{array}{c|c} & \text{O} & \text{O} \\ \parallel & \parallel & \parallel \\ \text{H}_2\text{C} \begin{array}{c} \longrightarrow \text{CH} - \text{C} - \text{NH} - \text{CH}_2 - \text{NH} - \text{C} - \text{CH} \\ \longrightarrow \text{CH}_2 \end{array} \text{CH}$$

REFERENCE COUNT:

25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 8 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:729417 HCAPLUS

DOCUMENT NUMBER:

134:5207

TITLE:

Preparation of superabsorbent polymer hydrogels from trialkyl-4-vinylbenzyl

phosphonium chloride-acrylamide-methylenebisacrylamide

terpolymers and their properties

AUTHOR(S):

Nonaka, Takamasa; Yamada, Kenji; Watanabe, Tsutomu;

CORPORATE SOURCE:

Kurihara, Seiji

Department of Applied Chemistry and Biochemistry, Faculty of Engineering, Kumamoto University, Kumamoto,

860-8555, Japan

SOURCE:

Journal of Applied Polymer Science (2000), 78(10),

1833-1844

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER:

John Wiley & Sons, Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

- Super-absorbent polymer gels were synthesized by terpolymn. of three kinds of tri-n-alkyl-4-vinylbenzyl phosphonium chloride (TRVB) with alkyl chains of different lengths, with acrylamide (AAm), and with N,N'methylenebisacrylamide (MBAAm). The water absorption ability and antibacterial activity of the gels against Staphylococcus aureus (S. aureus) and Escherichia coli (E. coli) were studied. The water content of TRVB-AAm-MBAAm terpolymers increased with increasing phosphonium groups in the terpolymer and decreased with increasing alkyl chain length in phosphonium groups and increasing degree of crosslinking in the terpolymers. The water content of the terpolymers was depressed by addn. of NaCl and this effect became higher as the alkyl chain length increased. The tri-n-octyl-4-vinylbenzyl phosphonium chloride (TOVB)-AAm-MBAAm terpolymers exhibited high antibacterial activity against S. aureus and E. coli in deionized water. The antibacterial activity decreased in 0.9% NaCl soln. The antibacterial activity of TOVB-AAm-MBAAm terpolymers with almost the same phosphonium content increased with increasing swelling ratio.
- CC 35-4 (Chemistry of Synthetic High Polymers) Section cross-reference(s): 36, 38
- ST alkylvinylbenzylphosphonium chloride acrylamide methylenebisacrylamide copolymer prepn hydrogel; superabsorbent hydrogel acrylic alkylvinylbenzylphosphonium chloride antibacterial activity; swelling water uptake acrylic alkylvinylbenzylphosphonium chloride hydrogel
- IΤ Antibacterial agents Crosslinking Escherichia coli

Hydrogels

Staphylococcus aureus Superabsorbents

Swelling, physical

(prepn. and water absorption and antibacterial activity of superabsorbent hydrogels of alkyl-vinylbenzylphosphonium chloride - acrylamide - methylenebisacrylamide terpolymers)

IT 7732-18-5, Water, processes

RL: PEP (Physical, engineering or chemical process); PROC (Process) (absorption; prepn. and water absorption and antibacterial activity of superabsorbent hydrogels of alkyl-vinylbenzylphosphonium chloride - acrylamide - methylenebisacrylamide terpolymers)

IT 515-42-4, Sodium benzenesulfonate 25155-30-0, Sodium

dodecylbenzenesulfonate

RL: PEP (Physical, engineering or chemical process); PROC (Process) (prepn. and water absorption and antibacterial activity of superabsorbent hydrogels of alkyl-vinylbenzylphosphonium chloride - acrylamide - methylenebisacrylamide terpolymers)

308286-41-1P, Acrylamide-N, N'-methylenebisacrylamide-tri-n-butyl-4-ΙT vinylbenzylphosphonium chloride copolymer 308286-42-2P, Acrylamide-N, N'-methylenebisacrylamide-tri-n-hexyl-4vinylbenzylphosphonium chloride copolymer 308286-43-3P, Acrylamide-N, N'-methylenebisacrylamide-tri-n-octyl-4-

vinylbenzylphosphonium chloride copolymer RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and water absorption and antibacterial activity of

superabsorbent hydrogels of alkyl-vinylbenzylphosphonium chloride - acrylamide - methylenebisacrylamide terpolymers)

IT7647-14-5, Sodium chloride, uses

Ceperley 10/046,730 RL: NUU (Other use, unclassified); USES (Uses) (soln. system; prepn. and water absorption and antibacterial activity of superabsorbent hydrogels of alkyl-vinylbenzylphosphonium chloride - acrylamide - methylenebisacrylamide terpolymers) ΙT 308286-41-1P, Acrylamide-N, N'-methylenebisacrylamide-tri-n-butyl-4vinylbenzylphosphonium chloride copolymer 308286-42-2P, Acrylamide-N, N'-methylenebisacrylamide-tri-n-hexyl-4vinylbenzylphosphonium chloride copolymer 308286-43-3p, Acrylamide-N, N'-methylenebisacrylamide-tri-n-octyl-4vinylbenzylphosphonium chloride copolymer RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and water absorption and antibacterial activity of superabsorbent hydrogels of alkyl-vinylbenzylphosphonium chloride - acrylamide - methylenebisacrylamide terpolymers) 308286-41-1 HCAPLUS RN Phosphonium, tributyl[(4-ethenylphenyl)methyl]-, chloride, polymer with CN N, N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME) CM CRN 87864-42-4 CMF C21 H36 P . Cl $(n-Bu) 3+P-CH_2$ CH==CH2

● cl-

CM

CRN 110-26-9 CMF C7 H10 N2 O2

CM

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \begin{smallmatrix} \mathsf{O} \\ || \\ \mathsf{H}_2\mathsf{N}-\mathsf{C}-\mathsf{C}\mathsf{H} & \mathsf{C}\mathsf{H}_2 \end{matrix}$$

RN 308286-42-2 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trihexyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 226710-73-2 CMF C27 H48 P . C1

● cl-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM 3

CRN 79-06-1 CMF C3 H5 N O

RN 308286-43-3 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trioctyl-, chloride, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 74443-79-1 CMF C33 H60 P . Cl

● cl-

CM 2

CRN 110-26-9 CMF C7 H10 N2 O2

CM 3

CRN 79-06-1 CMF C3 H5 N O

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 9 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

2000:451357 HCAPLUS

DOCUMENT NUMBER:

134:86748

TITLE:

Molecular dynamics study of single/multichain coulomb

polymers and the effects of salt ions

AUTHOR(S):

Tanaka, Motohiko; Grosberg, A. Yu; Tanaka, Toyoichi

National Institute for Fusion Science, Toki, 509-5292,

Japan

SOURCE:

Research Report - NIFS-PROC Series (1999), 43(Structure Formation and Function of Gaseous, Biological and Strongly Coupled Plasmas), 9-19

CODEN: RNPSE5; ISSN: 0915-6348

PUBLISHER:

National Institute for Fusion Science

DOCUMENT TYPE: LANGUAGE:

Journal English

AB The dynamic behaviors and equil. properties of charged polymers of random sequences (polyampholytes) are studied for both the single-chain and multichain cases with the use of mol. dynamics simulations. Single-chain polyampholyte has three temp. regimes under neutral condition, which are characterized by an elongated Gaussian coil and a very dense globule for high and low temps., resp., and by a transition between them at medium temp. The size of a single-chain polyampholyte shows hysteresis against slow cyclic temp. changes under the Coulomb force and short-range attraction force. The multichain polyampholyte takes a segregated globular phase at low temp., and the wall-bound one-phase state with sepd.

chains at high temp. The polyampholyte chains overlap significantly below the crit. temp., at which glass transition takes place. Added salt ions screen the elec. field between the monomers and make the polyampholyte

sol. when their d. is comparable to that of the polyampholyte. CC 36-7 (Physical Properties of Synthetic High Polymers)

styrene sulfate vinyl benzene trimethylammonium hydrogel mol dynamic simulation; polyelectrolyte acrylamidomethylpropanesulfonic acid swelling salt effect elec field permittivity

IT Glass transition

Hydrogels

Polyelectrolytes

Radius of gyration

Swelling, physical

(mol. dynamics study of single/multichain coulomb polymers and the effects of salt ions)

IT **28088-53-1** 154245-12-2

RL: PRP (Properties)

(mol. dynamics study of single/multichain coulomb polymers and the effects of salt ions)

IT 28088-53-1

RL: PRP (Properties)

(mol. dynamics study of single/multichain coulomb polymers and the effects of salt ions)

RN 28088-53-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, homopolymer, salt with 4-ethenylbenzenesulfonic acid homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 49718-56-1

CMF (C12 H18 N)x

CCI PMS

CM 2

CRN 46231-82-7 CMF C12 H18 N

 $Me_3^+N-CH_2$ $CH=CH_2$

$$Me_3^+N-CH_2$$
 $CH=CH_2$

CM 3

CRN 49718-51-6 CMF (C8 H7 O3 S)x CCI PMS

CM 4

CRN 46061-72-7 CMF C8 H7 O3 S

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 10 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:392898 HCAPLUS

DOCUMENT NUMBER:

133:18892

TITLE:

Functional coat films with long service life, articles bearing the films and method for their manufacture

INVENTOR(S):

Higuchi, Yoshiki; Harada, Eiji; Nojima, Takayuki;

Omura, Hiroshi

PATENT ASSIGNEE(S):

Nippon Oil and Fats Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000158594	A2	20000613	JP 1998-333822	19981125
PRIORITY APPLN. INFO.	:		JP 1998-333822	19981125

AB The films are coated on a substrate as an under layer and a top layer which is chem. bonded to the under layer by 3,3',4,4'-tetra(tert-butylperoxycarbonyl)benzophenone (I) compd. where the under layer is derived from radical-polymerizable monomers and the top layer is derived from functional monomers. Thus, coating a mixt. of I 0.5, PPZ (phosphazene methacrylate deriv.) 1.5 and propylene glycol monomethyl ether 98% on the surface of an acrylic resin panel to dry thickness of 0.5 .mu.m, drying, irradiating with UV light, coating on top with a mixt. of

N,N-dimethylacrylamide 20 and water 80% and irradiating with UV light gave a coated panel with a transparent film having pencil hardness 2H and good adhesion and resistance to fogging.

- IC ICM B32B027-00 ICS C08J007-04
- CC 42-10 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38
- 272119-32-1P, N,N-Dimethylacrylamide-hexakis (methacryloyloxyethoxy IT)cyclotriphosphazene copolymer 272119-33-2P, Sodium 2-acrylamido-2methylpropanesulfonate-Hexakis (methacryloyloxyethoxy) cyclotriphosphazene 272119-34-3P, KBM 503-NK Ester A 600copolymer hexakis (methacryloyloxyethoxy) cyclotriphosphazene-sodium methacrylate-trimethylolpropane triacrylate copolymer 272119-35-4P, Blemmer QA-trimethylolpropane triacrylate copolymer 272119-36-5P, KBM 503-2-(perfluorohexyl)ethyl acrylate-Hexakis(methacryloyloxyethoxy)cyclotr iphosphazene copolymer 272119-37-6P, Hexakis (methacryloyloxyethoxy) cyclo triphosphazene-KBM 503-sodium 2-acrylamido-2-methylpropanesulfonate copolymer 272119-38-7P, NK Ester A 600-N, N-dimethylacrylamidehexakis (methacryloyloxyethoxy) cyclotriphosphazene-trimethylolpropane triacrylate copolymer 273221-38-8P, Hexakis (methacryloyloxyethoxy) cyclotriphosphazene-trioctyl (4vinylbenzyl)phosphonium chloride) copolymer RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 - (functional coat films with long service life, articles bearing films and method for manuf.)
- 272119-32-1P, N,N-Dimethylacrylamide-hexakis (methacryloyloxyethoxy)cyclotriphosphazene copolymer 272119-38-7P, NK Ester A 600-N,N-dimethylacrylamide-hexakis (methacryloyloxyethoxy) cyclotriphosphaze ne-trimethylolpropane triacrylate copolymer 273221-38-8P, Hexakis (methacryloyloxyethoxy) cyclotriphosphazene-trioctyl (4-vinylbenzyl)phosphonium chloride) copolymer RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (functional coat films with long service life, articles bearing films
 - (functional coat films with long service life, articles bearing and method for manuf.)
- RN 272119-32-1 HCAPLUS
- CN 2-Propenamide, N,N-dimethyl-, polymer with 2,2,4,4,6,6-hexahydro-2,2,4,4,6,6-hexakis[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-1,3,5,2,4,6-triazatriphosphorine (9CI) (CA INDEX NAME)

CM 1

CRN 92832-53-6 CMF C36 H54 N3 O18 P3

2680-03-7 CRN CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

RN 272119-38-7 HCAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3propanediyl ester, polymer with N,N-dimethyl-2-propenamide, 2,2,4,4,6,6-hexahydro-2,2,4,4,6,6-hexakis[2-[(2-methyl-1-oxo-2propenyl)oxy]ethoxy]-1,3,5,2,4,6-triazatriphosphorine and .alpha.- $(1-\infty x-2-propeny1)$ -.omega.- $[(1-\infty x-2-propeny1) oxy]$ poly(oxy-1,2ethanediyl) (9CI) (CA INDEX NAME)

CM1

CRN 92832-53-6 CMF C36 H54 N3 O18 P3

2 CM

CRN 26570-48-9

CMF (C2 H4 O)n C6 H6 O3

CCI PMS

$$H_2C = CH - C - CH_2 - CH_2$$

CM 3

CRN 15625-89-5 CMF C15 H20 O6

CM 4

CRN 2680-03-7 CMF C5 H9 N O

RN 273221-38-8 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trioctyl-, chloride, polymer with 2,2,4,4,6,6-hexahydro-2,2,4,4,6,6-hexakis[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-1,3,5,2,4,6-triazatriphosphorine (9CI) (CA INDEX NAME)

CM 1

CRN 92832-53-6

CMF C36 H54 N3 O18 P3

CRN 74443-79-1 CMF C33 H60 P . Cl

$$Me^{-}$$
 (CH₂) 7
 Me^{-} (CH₂) 7 P^{+} CH₂
 Me^{-} (CH₂) 7 CH CH

● c1-

L47 ANSWER 11 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

1999:640624 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 131:262675

TITLE: Ocular lens material

INVENTOR(S): Kazuhiko, Nakada; Sadanori, Oono

PATENT ASSIGNEE(S): Menicon Co., Ltd., Japan SOURCE: Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO	. DATE
EP 947856	A2	19991006	EP 1999-106591	19990331
EP 947856	A3	20001018		
R: AT, B	E, CH, DE	, DK, ES, FR	, GB, GR, IT, LI,	LU, NL, SE, MC, PT,
IE, S	I, LT, LV	, FI, RO		
JP 11286521	A2	19991019	JP 1998-91437	19980403
PRIORITY APPLN. IN	FO.:		JP 1998-91437	A 19980403
AB An ocular len	s material	l comprising	a polymer prepd.	by polyma, a monomer

mixt. contg. at least one of (A-1) H2C:CR1CO2R2P+R33 X1-wherein R1 is H or Me, R2 is an alkylene group having 1 to 8 carbon atoms, R3 is an alkyl group having 1 to 18 carbon atoms and X1 is a halogen atom, and (A-2) CH2:CR4C6H4R5P+R63 X2- wherein R4 is H or Me, R5 is an alkylene group having 1 to 8 carbon atoms, R6 is an alkyl group having 1 to 18 carbon atoms and X2 is a halogen atom. The ocular lens material shows excellent antibacterial property. A compn. comprised tri-n-butyl(2-methacryloyloxyethyl)phosphonium chloride, 2-hydroxyethyl methacrylate and ethylene dimethacrylate.

IC ICM G02B001-04

ICS C08F230-02; C08F246-00

CC 63-7 (Pharmaceuticals)

IT 245117-41-3P 245117-43-5P 245117-44-6P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(ocular lens material comprising phosphonium vinyl polymers)

IT 245117-43-5P 245117-44-6P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(ocular lens material comprising phosphonium vinyl polymers)

RN 245117-43-5 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trioctyl-, chloride, polymer with 1-ethenyl-2-pyrrolidinone and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 74443-79-1 CMF C33 H60 P . C1

• cl-

CM 2

CRN 88-12-0 CMF C6 H9 N O

CRN 80-62-6 CMF C5 H8 O2

 $^{
m H_2C}$ O $^{\parallel}$ $^{\parallel}$ $^{\parallel}$ Me- C- C- OMe

RN 245117-44-6 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trioctyl-, chloride, polymer with N,N-dimethyl-2-propenamide, methyl 2-methyl-2-propenoate and tributyl[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]phosphonium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 110769-39-6 CMF C18 H36 O2 P . Cl

● C1-

CM 2

CRN 74443-79-1 CMF C33 H60 P . Cl

$$Me - (CH_2) 7$$
 $Me - (CH_2) 7 - P - CH_2$
 $Me - (CH_2) 7$
 $Me - (CH_2) 7$
 $CH = CH_2$

● Cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

0 $Me_2N-C-CH-CH_2$

> CM 4

CRN 80-62-6 CMF C5 H8 O2

H₂C o Me-C-C-OMe

L47 ANSWER 12 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:271418 HCAPLUS

DOCUMENT NUMBER:

130:325791

TITLE:

Reinforcing mineral fibers

INVENTOR(S):

Hennissen, Bernardus G. M.; Ghijzen, Cor J. M.

PATENT ASSIGNEE(S):

Rockwool International A/S, Den.

SOURCE:

PCT Int. Appl., 39 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	ENT	NO.		KI	ND	DATE			A	PPLI	CATI	ON N	٥.	DATE				
	WO	9919	396		A	1	1999	0422		W	5 19	98-D	K440		1998	1009			
		W:	AL,	AM,	AT,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	
			CZ,	DE,	DE,	DK,	DK,	EE,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	
			ID,	IL,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	
			MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	
			SK,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,	ŪG,	US,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	
			BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM										
		RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,	
			FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	
			CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG							
	ΑU	9894	340		Α	1	1999	0503		Αl	J 19	98-9	4340		1998	1009			
	ΕP	1023	381		Α	1	2000	0802		E	P 19	98-9	4741	4	1998	1009			
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	PT,	ΙE,	FI
PRIOR	?ITY	APP	LN.	INFO	.:					EP 1:	997-	6100	46	Α	1997	1010			
									1	WO 1	998-	DK44	0	W	1998:	1009			
OTHER	R SC	URCE	(S):			MAR	PAT	130:	3257	91									

OTHER SOURCE(S): MARPAT 130:325791

AB The invention relates to mineral fibers treated with a coupling agent, e.g. a silane compd., to result in covalent bonding of the coupling agent to the fiber surface, as well as a free-flowing mineral fiber granulate suitable for the reinforcement of thermoplastic or thermosetting

materials, in particular a free-flowing mineral fiber granulate contg. coupling agent-treated mineral fibers coated with or embedded in a compatibilizer (e.g., nonionic, cationic, or anionic surfactants) or wetting agent [e.g., polyethylene glycol (derivs.) or polypropylene glycol (derivs.)] that serves to enhance dispersibility of the mineral fibers in a thermoplastic or thermosetting material. The mineral fibers and mineral fiber granulates of the invention are easily dispersed in polymers such as polypropylene and result in fiber-reinforced shaped articles with improved strength properties due to the improved fiber dispersion and improved bonding between the fibers and the polymer.

IC ICM C08K007-04

ICS C08K009-04

CC 37-6 (Plastics Manufacture and Processing)

IT Acrylic polymers, uses

Polyamides, uses

Polycarbonates, uses

Polyesters, uses

Polyimides, uses

Polyolefins

Polyurethanes, uses

RL: POF (Polymer in formulation); USES (Uses)

(free-flowing reinforcing mineral fiber granulates treated by coupling agents and coated with compatibilizer/wetting agents)

IT 223559-84-0 **223646-89-7** 223669-84-9, Dynasylan 1372

RL: MOA (Modifier or additive use); USES (Uses)

(coupling agent; free-flowing reinforcing mineral fiber granulates treated by coupling agents and coated with compatibilizer/wetting agents)

IT 223646-89-7

RL: MOA (Modifier or additive use); USES (Uses) (coupling agent; free-flowing reinforcing mineral fiber granulates treated by coupling agents and coated with compatibilizer/wetting agents)

RN 223646-89-7 HCAPLUS

CN Poly[oxy[[3-[[2-[[(4-ethenylphenyl)methyl]dimethylammonio]ethyl]amino]propyl]ethoxysilylene]], chloride (9CI) (CA INDEX NAME)

●x Cl-

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 13 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1999:182450 HCAPLUS

DOCUMENT NUMBER:

130:244494

TITLE:

Resin composition containing styrene-methacrylate copolymer and ink-jet printing medium therewith

INVENTOR(S):

Nagata, Manabu; Takemori, Shinichi; Imai, Takahiro;

Miyamoto, Hiroshi

PATENT ASSIGNEE(S):

Sumitomo Seika K. K., Japan Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: LANGUAGE:

SOURCE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 11070730	A2	19990316		JP 1997-232877	19970828
PRIORITY APPLN. INFO.:		Ċ	JΡ	1997-232877	19970828

- AB Claimed resin compn. comprises a crosslinked poly(alkylene oxide) 13-95, an ethylene-contg. copolymer or a polyamide 2-70, a cationic polymer 1-50, and a styrene-methacrylate copolymer 1-30%. The cationic polymer may be a maleimide-type copolymer. The medium shows excellent ink fixability and provides water- and heat-resistant images.
- IC ICM B41M005-00

ICS B32B027-00; B41J002-01; B29L009-00

- CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 37
- IT Polyamides, uses

RL: TEM (Technical or engineered material use); USES (Uses) (ink-receiving resin compn. contg. styrene-methacrylate copolymer for waterproofed ink-jet printing medium)

- IT 74-85-1D, Ethylene, polymer with acrylic acid ester an maleic acid 79-10-7D, Acrylic acid, ester, polymer with ethylene and maleic acid 110-16-7D, Maleic acid, polymer with acrylic acid ester and ethylene 9010-77-9, Acrylic acid-ethylene copolymer 9010-86-0, Ethyl acrylate-ethylene copolymer 24937-16-4, Nylon 12 24937-78-8, Evatate D 25035-04-5, Nylon 11 25038-54-4, Nylon 6, 3012 25035-02-3, Nylon 8 25038-74-8 25053-53-6, Ethylene-methacrylic acid copolymer uses 25067-34-9, Eval EP F 101 25101-13-7, Acryft WH 302 25190-92-5, Nylon 25191-04-2, 7125U 25587-80-8 25750-23-6, Grivory G 21 26222-39-9, Lunapale 912 26777-62-8, Adipic acid- .epsilon.-caprolactamdodecanolactam- hexamethylenediamine copolymer 32131-17-2, Nylon 66, uses **74443-79-1**, Cydaps 8CMS 157970-53-1, Reolex AS 170
 - RL: TEM (Technical or engineered material use); USES (Uses)

(ink-receiving resin compn. contg. styrene-methacrylate copolymer for waterproofed ink-jet printing medium)

IT **74443-79-1**, Cydaps 8CMS

RL: TEM (Technical or engineered material use); USES (Uses) (ink-receiving resin compn. contg. styrene-methacrylate copolymer for waterproofed ink-jet printing medium)

RN 74443-79-1 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]trioctyl-, chloride (9CI) (CA INDEX NAME)

● cl-

L47 ANSWER 14 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:689183 HCAPLUS

DOCUMENT NUMBER:

129:302996

TITLE:

Preparation of self-acid-doped sulfonic acid

ring-substituted polyaniline in its aqueous form, and

polymer blends made therefrom

INVENTOR(S):

Chen, Show An; Hwang, Gue Wuu National Science Council, Taiwan

PATENT ASSIGNEE(S): SOURCE:

U.S., 9 pp., Cont.-in-part of U.S. Ser. No. 501,593.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5821344	Α	19981013	US 1997-787131	19970122
PRIORITY APPLN. INFO	.:		US 1995-501593	19950712

- AB The present invention discloses a process for prepg. an aq. soln. of self-acid-doped o-sulfonic acid ring-substituted polyaniline, which can be cast into free-standing films. The process involves dissolving a solid o-sulfonic acid ring-substituted polyaniline in an alk. aq. soln. to form an aq. soln. of an undoped o-sulfonate ring-substituted polyaniline; purifying the aq. soln. of the undoped o-sulfonate ring-substituted polyaniline by subjecting it to a purifying treatment to remove excess alkali therefrom; and contacting the resulting purified aq. soln. with a H+ -type ion-exchange resin to form an aq. soln. contg. a self-acid-doped o-sulfonic acid ring-substituted polyaniline. A suitable water sol. polymer or polymer emulsion can be easily mixed with the aq. soln. contg. the self-acid-doped o-sulfonic acid ring-substituted polyaniline to form a polymer blend.
- IC C08G073-00
- NCL 528422000
- CC 35-5 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 37
- IT 1343-98-2, Poly(silicic acid) 9002-89-5, Poly(vinyl alcohol 9002-98-6 9003-01-4, Poly(acrylic acid) 9003-05-8, Polyacrylamide 9003-09-2, Poly(vinyl methyl ether) 9003-20-7, Poly(vinyl acetate) 9003-39-8, Polyvinylpyrrolidone 24979-70-2, Poly(4-vinylphenol) 25014-12-4, Polymethacrylamide 25014-15-7, Poly(2-vinylpyridine) 25087-26-7, Poly(methacrylic acid) 25189-55-3, Poly(N-isopropylacrylamide) 25191-25-7, Poly(vinyl sulfuric acid) 25213-24-5, Vinyl acetate-vinyl

alcohol copolymer 25232-41-1, Poly(4-vinylpyridine) 25322-68-3, Poly(ethylene oxide) 25987-88-6 25987-89-7 26062-79-3, Poly(diallyldimethylammonium chloride) 26099-09-2, Poly(maleic acid) 26101-52-0, Poly(ethylenesulfonic Acid) 26336-38-9, Polyvinylamine **26793-34-0**, Poly(N,N-dimethylacrylamide) 27754-99-0, Poly(vinylphosphonic acid) 28391-39-1, Poly(4-vinylbenzoic acid) 29382-27-2 32555-37-6 **49718-56-1D**, salts 50851-57-5, Poly(styrene sulfonic acid) 57214-11-6 89843-85-6 165043-25-4 165043-26-5 165043-27-6 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (prepn. of self-acid-doped sulfonic acid ring-substituted polyaniline in its aq. form, and polymer blends made therefrom) 26793-34-0, Poly(N,N-dimethylacrylamide) 49718-56-1D, salts RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (prepn. of self-acid-doped sulfonic acid ring-substituted polyaniline in its aq. form, and polymer blends made therefrom) 26793-34-0 HCAPLUS 2-Propenamide, N, N-dimethyl-, homopolymer (9CI) (CA INDEX NAME) CM

0 $Me_2N-C-CH \longrightarrow CH_2$

IT

RN

CN

RN49718-56-1 HCAPLUS CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 46231-82-7 CMF C12 H18 N

CRN 2680-03-7 CMF C5 H9 N O

 Me_3+N-CH_2 CH== CH₂

REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS 4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 15 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:672476 HCAPLUS

DOCUMENT NUMBER: 129:281021

TITLE: Phosphate-binding polymers combined with a calcium supplement for oral administration

INVENTOR(S): Goldberg, Dennis I.; Burke, Steven K.; Mandeville, W.

Harry, III; Holmes-Farley, Stephen Randall;

Whitesides, George M.

PATENT ASSIGNEE(S): Geltex Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 64 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	rent	NO.		KIND DATE					APPLICATION NO.					DATE			
WO	9842	355		A	1	1998:	1001		W	0 19	97-U	s578	0	1997	0408		
	W :	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	HU,	IL,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,	TM,	TR,	TT,	UA,	ŪG,	US,	UZ,
		VN,	YU,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	MT					
	RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,
		GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,
		ML,	MR,	ΝE,	SN,	TD,	TG										
AU	9724	464		A	1	1998	1020		Αl	J 19	97-2	4464		1997	0408		
PRIORIT	Y APP	LN.	INFO	. :				1	US 19	997-	8236	99		1997	0325		
								1	WO 19	997-1	US57	80		1997	0408		

- AB Phosphate-binding polymers are provided for removing phosphate from the gastrointestinal tract. The polymers are orally administered, and are useful for the treatment of hyperphosphatemia. Compds. demonstrated to effectively remove phosphate were polyethylenimine salts such as sulfate, tartrate, ascorbate, citrate, and succinate. Examples are given for prepn. of these compds. and other polymers such as polyallylamine derivs.
- IC ICM A61K031-785
 - ICS A61K033-10; A61K033-06
- CC 63-6 (Pharmaceuticals)
 - Section cross-reference(s): 35
- ΙT 104-78-9DP, N-(3-Diethylaminopropyl)amine, reaction products with divinylbenzene-Me methacrylate copolymer 107-15-3DP, 1,2-Ethanediamine, reaction products with divinylbenzene-Me methacrylate copolymer, biological studies 111-40-0DP, reaction products with divinylbenzene-Me methacrylate copolymer 112-24-3DP, Triethylenetetramine, reaction products with divinylbenzene-Me methacrylate copolymer 112-57-2DP, Tetraethylenepentamine, reaction products with divinylbenzene-Me methacrylate copolymer 306-60-5DP, Agmatine, reaction products with N-hydroxysuccinimide acrylatemethylenebisacrylamide copolymer 814-68-6DP, Acryloyl chloride, reaction products with polyethylenimine 2482-00-0DP, Agmatine sulfate, reaction products with poly(methacryloyl chloride) 2582-30-1DP, Aminoquanidine bicarbonate, reaction products with poly(methacryloyl chloride) 4067-16-7DP, Pentaethylenehexamine, reaction products with divinylbenzene-Me methacrylate copolymer 9017-37-2DP, Divinylbenzenemethyl methacrylate copolymer, reaction products with 25085-17-0P, Epichlorohydrin-diethylenetriamine copolymer polyamines 26336-38-9P, Polyvinylamine 34369-44-3P, Epichlorohydrinpentaethylenehexamine copolymer 37339-48-3P 130530-88-0P 132460-82-3P, N-(3-Dimethylaminopropyl)acrylamide-methylenebisacrylamide copolymer 147898-29-1DP, hydrolyzed 161035-25-2DP, reaction products

with polyamines 162786-36-9DP, Divinylbenzene-methacryloyl chloride copolymer, reaction products with polyamines 214040-27-4P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(phosphate-binding polymers combined with a calcium supplement for oral administration)

1T 107-15-3DP, 1,2-Ethanediamine, reaction products with divinylbenzene-Me methacrylate copolymer, biological studies

37339-48-3P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); USES (Uses)
 (phosphate-binding polymers combined with a calcium supplement for oral
 administration)

RN 107-15-3 HCAPLUS

CN 1,2-Ethanediamine (9CI) (CA INDEX NAME)

 $H_2N-CH_2-CH_2-NH_2$

RN 37339-48-3 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with diethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 CH
 CH

● cl-

CM 2

CRN 1321-74-0 CMF C10 H10 CCI IDS





2 D1-CH=CH2

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 16 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:535186 HCAPLUS

DOCUMENT NUMBER:

129:231137

TITLE:

Polymerizable fluorine-containing polyethers and

manufacture thereof

INVENTOR(S):

Tsuji, Makoto; Nanbu, Hiromi

PATENT ASSIGNEE(S):

Kao Corp., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 10218988 A2 19980818 JP 1997-25101 19970207
PRIORITY APPLN. INFO.: JP 1997-25101 19970207

- AB The title compds. are CH2:CHC6H4CH2N+(R2)(R3)R1O(AO)nR4 Z-, wherein R1 = C1-20 divalent hydrocarbon group with or without O; R2, R3 = H, C1-20 alkyl optionally contg. O, -R1O(AO)nR4; R1 and R2, or R1 and R3 may have the same carbon with R1, R2 and R3 forming C1-20 pyridylalkylene group; R4 = H, C1-30 hydrocarbon group with or without O, N, Si or halogen; A = ethylene, propylene, CH2CH(CF3); at least 5 of A's being CH2CH(CF3); n = 5-2000; Z- = anion. P-CH2:CHC6H4CH2N+Me2CH2CH2O[CH2CH(CF3)O]22H C1- was prepd. by alkoxylation of dimethylethanolamine with trifluoropropylene oxide then reacting with p-chloromethylstyrene.
- IC ICM C08G065-32
 - ICS C08F290-06
- CC 35-2 (Chemistry of Synthetic High Polymers)
- IT 212692-13-2P
 - RL: IMF (Industrial manufacture); PREP (Preparation)

(polymerizable fluorine-contg. polyethers and manuf. thereof)

IT 212625-51-9P 212625-52-0P 212626-77-2P 212716-43-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(polymerizable fluorine-contg. polyethers and manuf. thereof)

IT 212692-13-2P

RL: IMF (Industrial manufacture); PREP (Preparation)

(polymerizable fluorine-contg. polyethers and manuf. thereof)

RN 212692-13-2 HCAPLUS

CN 2-Propenamide, N,N-dimethyl-, polymer with .alpha.-[2-[[(4-ethenylphenyl)methyl]dimethylammonio]ethyl]-.omega.-

hydroxypoly[oxy[(trifluoromethyl)-1,2-ethanediyl]] chloride (9CI) (CA

INDEX NAME)

CM 1

CRN 212626-77-2

CMF (C3 H3 F3 O)n C13 H20 N O . C1

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 2680-03-7

CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

IT 212716-43-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(polymerizable fluorine-contg. polyethers and manuf. thereof)

RN 212716-43-3 HCAPLUS

CN Oxirane, (trifluoromethyl)-, polymer with oxirane, mono[2-[[(4-ethenylphenyl)methyl]dimethylammonio]ethyl] ether, chloride (9CI) (CA INDEX NAME)

CM 1

CRN 212612-37-8

CMF C13 H20 N O . (C3 H3 F3 O . C2 H4 O) x

CM 2

CRN 88353-54-2 CMF C13 H20 N O

$$\begin{array}{c} \text{Me} \\ \downarrow \\ \text{HO-CH}_2\text{--CH}_2 \\ \downarrow \\ \text{Me} \end{array}$$

CM 3

CRN 143223-28-3

CMF (C3 H3 F3 O . C2 H4 O)x

CCI PMS

CRN 359-41-1 CMF C3 H3 F3 O



CM 5

CRN 75-21-8 CMF C2 H4 O



L47 ANSWER 17 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:762022 HCAPLUS

DOCUMENT NUMBER:

128:95285

TITLE:

Silver halide photographic material providing

high-contrast images

INVENTOR(S):

Nishi, Kenichi; Haino, Kozo

PATENT ASSIGNEE(S):

Mitsubishi Paper Mills, Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 18 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09304858	A2	19971128	JP 1996-121485	19960516
PRIORITY APPLN. INFO.	:	JР	1996-121485	19960516
OTHER COURCE/C).	MA	DDXM 120.0E20E		

OTHER SOURCE(S): MARPAT 128:95285

AB The material contains .gtoreq.1 polymer contg. LP+R1R2R3.X- [R1-3 = (substituted) alkyl, alkenyl, aryl, heterocycle; X = anion; L = linking group] and .gtoreq.1 hydrazine deriv. R1NA1NA2G1R2 (A1-2 = H, sulfonyl, acyl; R1 = aliph., arom., or heterocyclic group; G1 = carbonyl, sulfonyl, sulfoxy, phosphoryl, oxalyl, iminomethylene; R2 = .gtoreq.1 electron-attractive group-substituted alkyl) in .gtoreq.1 photosensitive Ag halide emulsion layer and/or other hydrophilic colloid layers. The material gave high-contrast and low-fog images even when processed with a developing soln. of pH <11.0.

IC ICM G03C001-06

ICS G03C001-035; G03C001-295; G03C001-36

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38

IT 164012-78-6 195144-14-0 195144-22-0 200943-12-0

200943-13-1 200943-14-2 200943-15-3 200943-16-4

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(silver halide photog. material contg. phosphonium salt-contg. polymer nucleating agent)

IT 195144-14-0 200943-12-0

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(silver halide photog. material contg. phosphonium salt-contg. polymer nucleating agent)

RN 195144-14-0 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]triphenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 47562-35-6 CMF C27 H24 P . Cl

● c1-

CM 2

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \circ \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

RN 200943-12-0 HCAPLUS

CN Phosphonium, [2-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]ethyl]triphenyl-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH} \end{array}$$

200943-11-9 CRN

C26 H28 O3 P . C7 H7 O3 S

CM 3

CRN 200943-10-8 CMF C26 H28 O3 P

CM 4

CRN 16722-51-3 CMF C7 H7 O3 S

L47 ANSWER 18 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

1997:715662 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 128:28587

TITLE: Silver halide photographic material useful in printing

platemaking

INVENTOR(S): Nishi, Kenichi; Haino, Kozo

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

Jpn. Kokai Tokkyo Koho, 20 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND	DATE	APPLICATION NO.	DATE
A2	19971031	JP 1996-93763	19960416
:		JP 1996-93763	19960416
	A2	A2 19971031	A2 19971031 JP 1996-93763

OTHER SOURCE(S): MARPAT 128:28587

AB The title material possesses .gtoreq.1 Ag halide emulsion layer comprising

Ag halide grains with av. grain size .ltoreq.0.1 .mu.m of which the AqCl content is .gtoreq.90 mol% and which contain a water-sol. Rh salt 1 .times. 10-6-2 .times. 10-4 mol/mol Ag on a support and contains .gtoreq.1 compd. (R11R12R13P+)tY1.(t/u)X1u-[R11-13 = alkyl, cycloalkyl, aryl,alkenyl, cycloalkenyl, heterocycle residue (these groups may be substituted); t = pos. integer; Y1 = org. group with t-valence(s) of which the C atom links to the P atom; u = 1-3; X1 = anion with u-valence(s), X1and Y1 may link] or .gtoreq.1 polymer having a structure Y2(P+R21R22R23)(X2)-[R21-23=alkyl, alkenyl, aryl, heterocycle (thesegroups may be substituted); X2 = anion; Y2 = liking group] and .gtoreq.1 compd. R1SO2NHLNA1NA2G1R2 [both of A1 and A2 are H or 1 of them is H and the other is sulfonyl or acyl group; R1 = aliph., arom. or heterocyclic group; L = divalent org. group; G1 = carbonyl, sulfonyl, sulfoxy, phosphoryl, oxalyl, iminomethylene; R2 = aliph. or arom. group, alkoxy, aryloxy, amino, Q+A- (Q+ = cationic group-contg. group; A- = anion, when Q+ contains sulfo group, A- is not necessary)] in the emulsion layer or other hydrophilic colloid layer. The material useful in printing platemaking shows high contrast even upon development with developers of pH <11.0 and improved resistance to safelight.

IC ICM G03C001-04

ICS G03C001-035; G03C001-053; G03C001-06; G03C001-36

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 1519-47-7 1530-32-1, Ethyltriphenylphosphonium bromide 2001-45-8, Tetraphenylphosphonium chloride 195144-14-0 195144-22-0 198137-70-1 199456-88-7

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. film contg. hydrazine deriv. or phosphonium compd.)

IT 199456-85-4P

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(photog. film contg. hydrazine deriv. or phosphonium compd.)

IT 195144-14-0 199456-88-7

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. film contg. hydrazine deriv. or phosphonium compd.)

RN 195144-14-0 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]triphenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 47562-35-6 CMF C27 H24 P . Cl

● c1 =

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} = \text{CH}_2 \end{matrix}$$

RN 199456-88-7 HCAPLUS

CN 4,7,10,13-Tetraoxa-1-phosphoniahexadec-15-ene, 15-methyl-14-oxo-1,1,1-triphenyl-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

CM 2

CRN 199456-87-6 CMF C30 H36 O5 P . C7 H7 O3 S

CM 3

CRN 199456-86-5 CMF C30 H36 O5 P

CM 4

CRN 16722-51-3 CMF C7 H7 O3 S

IT 199456-85-4P

RL: DEV (Device component use); MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses) (photog. film contg. hydrazine deriv. or phosphonium compd.)

RN 199456-85-4 HCAPLUS

CN Phosphonium, [5-[(2-methyl-1-oxo-2-propenyl)oxy]pentyl]triphenyl-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2\text{N}-\text{C}-\text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 2

CRN 199456-84-3 CMF C27 H30 O2 P . C7 H7 O3 S

CM 3

CRN 199456-83-2 CMF C27 H30 O2 P

CM 4

CRN 16722-51-3 CMF C7 H7 O3 S

L47 ANSWER 19 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:526284 HCAPLUS

DOCUMENT NUMBER: 127:227406

TITLE: Silver halide photographic material and the method for

processing the material utilizing phosphonium compound Haino, Kozo; Koga, Masao; Kaneko, Satoshi; Furukawa,

Akira

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

INVENTOR(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09203988 JP 3429940	A2 B2	19970805 20030728	JP 1996-11362	19960126

PRIORITY APPLN. INFO.: JP 1996-11362 19960126

Claimed method comprises processing the material in presence of a polymer contg. a phosphonium group Ln(PR1R2R3)X (R1-3 = alkyl, alkenyl, aryl;, heterocyclic group; X = anion, L = linkage group; n = 0, 1). Also claimed is the photog. material contg. a hydrazine in an emulsion layer or in other hydrophilic colloid layer and also contg. the above phosphonium derivs. The phosphonium derivs. are contrast-enhancing accelerator, and provides an image with high contrast even at low pH, also reduces black peppers, and improves the consistency of photog. quality of processed films. Suitable phosphonium to be incorporated in graphic arts films are triphenylphosphohexyl ester of methacrylic acid/acrylamide copolymer, triphenylphosphooctyl ester of methacrylic acid/acrylamide copolymer and triphenylphospho-ethoxyethoxyethyl ester of methacrylic acid/acryldimethylamide copolymer and suitable hydrazines are 1-(1-diethylamino-2-pentylamino-oxalyl)-2-[4-(noctyloxysulfoamino)phenyl]hydrazine and 1-(diethylaminopropylamino-oxalyl)-2-[4-[2-(phenylthio)propioamido]phenyl]hydrazine. The material can be processed by the PQ developer having the pH of 10.5.

IC ICM G03C001-06

ICS G03C001-04; G03C001-295; G03C005-29; G03C005-305

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

TT **195144-14-0** 195144-16-2 **195144-19-5** 195144-22-0 195144-25-3 195144-27-5

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(photog. lith film and its processing utilizing contrast-enhancing phosphonium compd.)

IT 195144-14-0 195144-19-5

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(photog. lith film and its processing utilizing contrast-enhancing phosphonium compd.)

RN 195144-14-0 HCAPLUS

CN Phosphonium, [(4-ethenylphenyl)methyl]triphenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CRN 47562-35-6 CMF C27 H24 P . Cl

● Cl-

CM 2

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \circ \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

RN 195144-19-5 HCAPLUS

CN Phosphonium, [6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]triphenyl-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 2

CRN 195144-18-4 CMF C28 H32 O2 P . C7 H7 O3 S

CM 3

CRN 195144-17-3 CMF C28 H32 O2 P

CRN 16722-51-3 CMF C7 H7 O3 S

L47 ANSWER 20 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:257190 HCAPLUS

DOCUMENT NUMBER:

126:244868

TITLE:

Recording material for ink-jet printing

INVENTOR(S):

Ikeda, Mitsuhiro; Suzaki, Katsumitsu; Kato, Makoto

PATENT ASSIGNEE(S):

Mitsubishi Paper Mills Ltd, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 09030112	A2	19970204	JP 1995-184082	19950720
PRIC	RITY APPLN. INFO.	:		JP 1995-184082	19950720
AB	In the title red	cording	material h	naving an ink-absorbin	g layer, the
	ink-absorbing la	yer is	a 3-dimens	sionally crosslinked l	ayer of a water-sol.
				dine crosslinker. Spe	
				ed. The support of th	
				pated paper. The inve	
				op and produce images	
	picture-like glo		.	F	1 3
IC	ICM B41M005-00				
10	ICS B05D005-04;	BOSDO	07-04 D21	#019 <u>-</u> 16	
			•		
CC	74-6 (Radiation	Chemis	try, Photo	chemistry, and Photogr	aphic and Other

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 192008-82-5P 192008-83-6P 192008-84-7P
192008-85-8P 192008-86-9P 192008-87-0P
192008-88-1P 192008-89-2P 192008-90-5P
192008-91-6P 192008-92-7P 192008-93-8P
192008-94-9P 192008-95-0P 192008-96-1P
192008-97-2P 192008-98-3P 192008-99-4P
192009-00-0P 192009-01-1P 192009-02-2P 192009-03-3P
192009-04-4P 192009-05-5P 192009-06-6P 192082-52-3P
192082-53-4P 192082-54-5P 192082-55-6P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (prepd. for forming 3-dimensionally crosslinked ink-absorbing layer for

ink-jet recording material)

IT 192008-82-5P 192008-83-6P 192008-84-7P

192008-85-8P 192008-86-9P 192008-88-1P

192008-89-2P 192008-91-6P 192008-93-8P

192008-94-9P 192008-95-0P 192008-96-1P

192008-97-2P 192008-98-3P 192008-99-4P

192009-01-1P 192009-03-3P 192009-06-6P

192082-53-4P 192082-54-5P 192082-55-6P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepd. for forming 3-dimensionally crosslinked ink-absorbing layer for ink-jet recording material)

RN 192008-82-5 HCAPLUS

1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-[[3-(1-aziridiny1)-1-oxopropoxy]methy1]-2-(hydroxymethy1)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (9CI) (CA INDEX NAME)

1 CM

CN

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 45021-77-0 CMF C9 H19 N2 O . C1

$$^{\circ}$$
 Me₃+N- (CH₂)₃-NH-C-CH== CH₂

• c1-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

CM 4

CRN 88-12-0 CMF C6 H9 N O

CM 5

CRN 79-10-7 CMF C3 H4 O2

RN 192008-83-6 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-ethyl-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 52234-82-9 CMF C21 H35 N3 O6

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

• c1-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 4

CRN 88-12-0 CMF C6 H9 N O

CRN 79-10-7 CMF C3 H4 O2

RN 192008-84-7 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, N,N'-1,6-hexanediylbis[1-aziridinecarboxamide] and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● Cl-

CM 2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH---} \text{CH}_2 \end{array}$$

CM 3

CRN 2271-93-4 CMF C12 H22 N4 O2

CRN 88-12-0 CMF C6 H9 N O

CM 5

CRN 79-10-7 CMF C3 H4 O2

RN 192008-85-8 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, 2-propenoic acid and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 46917-07-1 CMF C15 H22 N O2 . Cl

● Cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3^+N^-$$
 (CH₂)₃-NH-C-CH $=$ CH₂

● cl-

CM 4

CRN 2680-03-7 CMF C5 H9 N O

CRN 88-12-0 CMF C6 H9 N O

CM 6

CRN 79-10-7 CMF C3 H4 O2

RN 192008-86-9 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, 2-methoxyethyl 2-propenoate, 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 46917-07-1 CMF C15 H22 N O2 . C1

● c1-

CM 3

CRN 3121-61-7 CMF C6 H10 O3

$$\begin{array}{c} \text{O} \\ || \\ \text{MeO-CH}_2\text{--CH}_2\text{--O-C-CH} \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

CRN 88-12-0 CMF C6 H9 N O

CM 6

CRN 79-10-7 CMF C3 H4 O2

CM 7

CRN 79-06-1 CMF C3 H5 N O

RN 192008-88-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 2-methyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 5039-78-1 CMF C9 H18 N O2 . C1

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & || & || \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

● cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

CM 4

CRN 79-39-0 CMF C4 H7 N O

CRN 79-10-7 CMF C3 H4 O2

RN 192008-89-2 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 5039-78-1 CMF C9 H18 N O2 . Cl

● c1-

CRN 2680-03-7 CMF C5 H9 N O

CM 4

CRN 79-10-7 CMF C3 H4 O2

RN 192008-91-6 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2- (hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, N-(hydroxymethyl)-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 5039-78-1 CMF C9 H18 N O2 . C1

● C1-

CM 3

CRN 2873-97-4 CMF C9 H15 N O2

$$\begin{array}{c} \text{O} & \\ || \\ \text{H}_2\text{C} = \text{CH} - \text{C} - \text{NH} & \text{O} \\ & | & || \\ \text{Me} - \text{C} - \text{CH}_2 - \text{C} - \text{Me} \\ & | \\ \text{Me} \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N-C-CH---} \text{CH}_2 \end{array}$$

CM 5

CRN 924-42-5 CMF C4 H7 N O2

CM 6

CRN 88-12-0 CMF C6 H9 N O

CM 7

CRN 79-10-7 CMF C3 H4 O2

RN 192008-93-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2- (hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 2-methoxyethyl 2-propenoate, 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 5039-78-1 CMF C9 H18 N O2 . Cl

• cl-

CM 3

CRN 3121-61-7 CMF C6 H10 O3

$$\begin{array}{c} \text{O} \\ || \\ \text{MeO--} \text{CH}_2 - \text{CH}_2 - \text{O--} \text{C--} \text{CH} \\ \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CM 5

CRN 79-10-7 CMF C3 H4 O2

CM 6

CRN 79-06-1 CMF C3 H5 N O

$$^{\circ}_{||}_{\text{H}_{2}\text{N}-\text{C}-\text{CH}==\text{CH}_{2}}$$

RN 192008-94-9 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 5039-78-1 CMF C9 H18 N O2 . C1

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_3 \text{+N-CH}_2 \text{-CH}_2 \text{-O-C-C-Me} \end{array}$$

● cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

CRN 79-41-4 CMF C4 H6 O2

RN 192008-95-0 HCAPLUS

1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c}
O \\
|| \\
Me3^+N^- (CH_2)_3^-NH^-C^-CH^- CH_2
\end{array}$$

• cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 4

CRN 79-10-7 CMF C3 H4 O2

RN 192008-96-1 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

• c1-

CM 3

CRN 5117-12-4 CMF C7 H11 N O2

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2\text{N}-\text{C}-\text{CH} \end{array} \text{CH}_2$$

CRN 79-10-7 CMF C3 H4 O2

RN 192008-97-2 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 46917-07-1 CMF C15 H22 N O2 . C1

● Cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

CM 4

CRN 88-12-0 CMF C6 H9 N O

CM 5

CRN 79-10-7 CMF C3 H4 O2

RN 192008-98-3 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH---} \text{CH}_2 \end{array}$$

CM 4

CRN 88-12-0 CMF C6 H9 N O

CRN 79-10-7 CMF C3 H4 O2

RN 192008-99-4 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 66099-76-1 CMF C18 H22 N . Cl

$$\begin{array}{c|c} \text{Me} & & \\ \hline \text{Ph-CH}_2 - \overset{+}{\underset{\text{Me}}{\text{N+}}} \text{CH}_2 \\ & & \\ & \\ & & \\ & & \\ & & \\ & \\ & & \\ & \\ & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

• c1-

CM 2

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-----} \text{CH}_2 \end{array}$$

CM 4

CRN 88-12-0 CMF C6 H9 N O

CM 5

CRN 79-10-7 CMF C3 H4 O2

RN 192009-01-1 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 46917-07-1 CMF C15 H22 N O2 . C1

• cl-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

CRN 79-10-7 CMF C3 H4 O2

RN 192009-03-3 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1aziridine
propanoate), N-(1,1-dimethyl-3-oxobutyl)-2-propenamide,N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM

CRN 46917-07-1

CMF C15 H22 N O2 . C1

● cl-

CM 3

CRN 2873-97-4 CMF C9 H15 N O2

CM 4

CRN 2680-03-7 CMF C5 H9 N O

CM 5

CRN 88-12-0 CMF C6 H9 N O

CM

CRN 79-10-7

CMF C3 H4 O2

RN 192009-06-6 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 2

CRN 46917-07-1 CMF C15 H22 N O2 . Cl

● cl-

CRN 5117-12-4 CMF C7 H11 N O2

CM 4

CRN 2680-03-7 CMF C5 H9 N O

CM 5

CRN 79-10-7 CMF C3 H4 O2

RN 192082-53-4 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, 2-propenoic acid and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH-CH_2$$

● Cl-

CM 3

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CRN 88-12-0 CMF C6 H9 N O

CM 6

CRN 79-10-7 CMF C3 H4 O2

RN 192082-54-5 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, 2-propenoic acid and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 66099-76-1 CMF C18 H22 N . Cl

● cl-

$$\begin{array}{c} \text{Me} \\ \text{Ph-} \text{CH}_2 - \text{N} \stackrel{+}{\longrightarrow} \text{CH}_2 \\ \text{Me} \\ \end{array}$$

● c1-

CM 2

CRN 57116-45-7 CMF C20 H33 N3 O7

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● cl-

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CM 5

CRN 88-12-0 CMF C6 H9 N O

CM 6

CRN 79-10-7 CMF C3 H4 O2

$$\begin{matrix} \text{O} \\ || \\ \text{HO-C-CH} \end{matrix} = \text{CH}_2$$

RN 192082-55-6 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate), N,N-dimethyl-2-propenamide, 1-ethenyl-2-pyrrolidinone, 4-ethenyl-N,N,N-trimethylbenzenemethanaminium chloride, 2-propenoic acid and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 57116-45-7 CMF C20 H33 N3 O7

CRN 46917-07-1 CMF C15 H22 N O2 . C1

● cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c}
 & O \\
 & || \\
 & Me_3+N-(CH_2)_3-NH-C-CH = CH_2
\end{array}$$

● c1-

CM 4

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● Cl-

CM 5

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 6

CRN 88-12-0 CMF C6 H9 N O

CM 7

CRN 79-10-7 CMF C3 H4 O2

L47 ANSWER 21 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:107379 HCAPLUS

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TITLE:

Phosphate-binding polymers for oral administration Holmes-Farley, Stephen Randall; Mandeville, W. Harry,

INVENTOR(S):

III; Whitesides, George M.

PATENT ASSIGNEE(S):

Geltex Pharmaceuticals, Inc., USA

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PCT Int. Appl., 43 pp. CODEN: PIXXD2

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	9639156 9639156								WO 1996-US8529 1996060								
		AL, ES, LT,	AM, FI, LU,	AT, GB,	AU, GE,	AZ, HU,	BB, IL,	IS,	JP,	KE,	KG,	KP,	KR,	CZ, KZ, PT,	LK,	LR,	LS,
	RW:		LS,											FI,		GB,	GR,
	5667	775	-	A		1997	0916		U	S 19	95-4	7174	7	1995	0606		
	9659																
EP	8318																
	R:	AT, IE,		CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
JP	1151	2074		T	2	1999	1019		J	P 19	97-5	0109	9	1996	0603		
NZ	3095	48		Α		2000	0728		N				-	1996			
PRIORIT	Y APP	LN.	INFO	.:				1	US 1	993-	1055	91	В2	1995 1993 1994	0811		
					1	wo 1	996-	US85	29	W	1996	0603					

- Phosphate-binding polymers are provided for removing phosphate from the gastrointestinal tract. The polymers are orally administered, and are useful for the treatment of hyperphosphatemia. Polymers were tested by stirring them in a phosphate-contg. soln. at pH 7 for 3 h. Among various polymers tested, best results were obtained with poly(allylamine-epichlorhydrin), poly(allylamine-butanediol diglycidyl ether), poly(allylamine-ethanediol diglycidyl ether), and polyethyleneimine, binding 3.2, 2.7, 2.3, and 2.7 meq/g phosphate.
- IC ICM A61K031-785
- CC 1-9 (Pharmacology)

Section cross-reference(s): 35, 63

50-81-7DP, Ascorbic acid, reaction products with polyethyleneimine-IT epichlorohydrin 77-92-9DP, Citric acid, reaction products with polyethyleneimine-epichlorohydrin 87-69-4DP, reaction products with polyethyleneimine-epichlorohydrin, biological studies 104-78-9DP, reaction products with poly(Me methacrylate-co-divinylbenzene) 106-89-8DP, reaction products with poly(ethyleneimine) 107-15-3DP , 1,2-Ethanediamine, reaction products with poly(Me methacrylate-codivinylbenzene), biological studies 110-15-6DP, Butanedioic acid, reaction products with polyethyleneimine-epichlorohydrin, biological 111-40-0DP, Diethylenetriamine, reaction products with poly (Me studies 112-24-3DP, reaction products with methacrylate-co-divinylbenzene) poly(Me methacrylate-co-divinylbenzene) 112-57-2DP, Tetraethylenepentamine, reaction products with poly(Me methacrylate-co-divinylbenzene) 306-60-5DP, Agmatine, reaction products with acrylate copolymer 814-68-6DP, Acryloyl chloride, reaction products with poly(ethyleneimine) 2482-00-0DP, Agmatine sulfate, reaction

products with poly(methacryloyl chloride) 2582-30-1DP, Aminoguanidine bicarbonate, reaction products with poly(methacryloyl chloride) 4067-16-7DP, Pentaethylenehexamine, reaction products with poly(Me methacrylate-co-divinylbenzene) 9002-98-6DP, reaction products with 9017-37-2DP, Divinylbenzenemethyl acryloyl chloride or epichlorhydrin methacrylate copolymer, reaction products with amines 25085-17-0P. Diethylenetriamine-epichlorohydrin copolymer 26336-38-9P, 26913-06-4DP, Poly[imino(1,2-ethanediyl)], reaction Poly(vinylamine) products with acryloyl chloride or epichlorhydrin 26937-45-1DP, Poly(methacryloyl chloride), reaction products with agmatine or aminoguanidine 34369-44-3P, Epichlorohydrin-pentaethylenehexamine 52757-95-6P, Allylamine-epichlorohydrin copolymer **37339-48-3P** 57491-00-6P 124012-04-0P 130530-88-0P 132460-82-3P copolymer 161035-25-2DP, reaction products with agmatine 162786-25-6P 162786-42-7P 186132-71-8P RL: BAC (Biological activity or effector, except adverse); BSU (Biological

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oral phosphate-binding polymers for treatment of hyperphosphatemia) 107-15-3DP, 1,2-Ethanediamine, reaction products with poly(Me methacrylate-co-divinylbenzene), biological studies 37339-48-3P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oral phosphate-binding polymers for treatment of hyperphosphatemia)

RN 107-15-3 HCAPLUS

CN 1,2-Ethanediamine (9CI) (CA INDEX NAME)

 $_{\rm H_2N^-CH_2^-CH_2^-NH_2}$

IT

RN 37339-48-3 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with diethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

● c1 -

CM 2

CRN 1321-74-0

CMF C10 H10 CCI IDS



 $2 \lceil D1 - CH = CH_2 \rceil$

L47 ANSWER 22 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:67094 HCAPLUS

DOCUMENT NUMBER:

126:96956

TITLE:

SOURCE:

Back printing-type recording material for ink-jet

printing

INVENTOR(S):

Sekine, Mikya; Uto, Tetsuya

PATENT ASSIGNEE(S):

Mitsubishi Paper Mills Ltd, Japan

Jpn. Kokai Tokkyo Koho, 10 pp.

DOCUMENT TYPE:

Patent

CODEN: JKXXAF

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08282092	A2	19961029	JP 1995-94737	19950420
PRIORITY APPLN. INFO.	:		JP 1995-94737	19950420

- In the back print-type recording material with a porous ink-absorbing layer formed on a transparent support, the ink-absorbing layer contains at least a polymer contg. a quaternary ammonium base and pigment particles with the refractive index of .ltoreq.1.7 to prevent image smears and increase water fastness. One type of the polymers may be represented by I (R1 - H, Me; Q = O, NH; R2-4 = Me, Et, benzyl; X = halogen ion, sulfonic acid ion, etc.; n = 2, 3).
- IC ICM B41M005-00
 - ICS D21H019-38; D21H019-44
- 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other CC Reprographic Processes)

Section cross-reference(s): 38

471-34-1, Calcium carbonate, uses 7631-86-9, Silica, uses ΙT Epostar S6 13463-67-7, Tipaque A-100, uses 26160-89-4, Epostar S 30973-80-9, Acrylamide-N, N-dimethylacrylamide copolymer 185457-19-6

185457-15-2 185457-17-4

185457-21-0 185457-23-2

RL: NUU (Other use, unclassified); USES (Uses)

(back printing-type recording material for ink-jet printing)

30973-80-9, Acrylamide-N, N-dimethylacrylamide copolymer TT

185457-15-2 185457-17-4 185457-21-0

185457-23-2

RL: NUU (Other use, unclassified); USES (Uses)

(back printing-type recording material for ink-jet printing)

RN 30973-80-9 HCAPLUS

CN 2-Propenamide, N,N-dimethyl-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me2N-C-CH-} \end{array} \text{CH2}$$

CM 2

CRN 79-06-1 CMF C3 H5 N O

RN 185457-15-2 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c}
 & O \\
 & || \\
 & || \\
 & Me_3+N-(CH_2)_3-NH-C-CH \longrightarrow CH_2
\end{array}$$

• c1-

CM 2

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N--} \text{(CH}_2) \text{ 3--} \text{NH--} \text{C--} \text{CH---} \text{CH}_2 \end{array}$$

$$^{\circ}_{||}$$
 $^{\circ}_{\text{Me}_{2}\text{N}^{-}}$ (CH₂)₃-NH-C-CH== CH₂

CRN 2680-03-7 CMF C5 H9 N O

CM 4

CRN 79-06-1 CMF C3 H5 N O

$$_{\text{H}_2\text{N}-\text{C}-\text{CH}}^{\text{O}}$$
 CH CH CH2

RN 185457-17-4 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH$$

● cl-

CM 2

CRN 5117-12-4 CMF C7 H11 N O2

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} & \circ \\ || \\ \text{Me}_2 \text{N-(CH}_2)_3 - \text{NH-C-CH-} \end{array} \text{CH}_2$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N-C-CH-} \end{array} \text{CH}_2$$

CM 5

CRN 79-06-1 CMF C3 H5 N O

RN 185457-21-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c}
 & O \\
 & || \\
 & Me_3+N-(CH_2)_3-NH-C-CH==CH_2
\end{array}$$

● cl -

CM 2

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● c1-

CM 3

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N-(CH}_2) \text{ 3-NH-C-CH} \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

CM 5

CRN 79-06-1 CMF C3 H5 N O

RN 185457-23-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● Cl-

CM 2

CRN 3845-76-9 CMF C8 H16 N2 O

L47 ANSWER 23 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:44690 HCAPLUS

DOCUMENT NUMBER:

126:67572

TITLE:

Direct imaging-type lithographic printing original

plate and its manufacture

INVENTOR(S):
PATENT ASSIGNEE(S):

Kato, Eiichi; Tashiro, Hiroshi Fuji Photo Film Co Ltd, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

·: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
TP 08276679	A2	19961022	JP 1995-81229	19950406

PRIORITY APPLN. INFO.:

JP 1995-81229

19950406

- AB The plate comprises a water-resistant support coated with an image-receiving layer (contact angle .ltoreq.65.degree. for H2O) contg.

 (A) Zn oxide, at least a part of which is obtained by wet dispersion, (B) a water-sol. compd. having .gtoreq.l acidic group selected from CO2H, SO3H, and PO3H2 groups forming a chelate compd. with Zn oxide or Zn ion, (C) a water-sol. basic compd., and (D) a binder resin. The plate is manufd. by applying a compn. contg. A, B, C, D, and a dispersant on a water-resistant support. The plate showed good smudge resistance.
- IC ICM B41N001-14 ICS G03G005-06
- CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- IT Polyamides, uses

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(with epichlorohydrin, chelating agent; zinc oxide-contg. direct imaging-type lithog. printing original plate with good smudge resistance)

IT 184970-57-8

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(chelating agent; cross-linked, zinc oxide-contg. direct imaging-type lithog. printing original plate with good smudge resistance)

IT 184970-57-8

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(chelating agent; cross-linked, zinc oxide-contg. direct imaging-type lithog. printing original plate with good smudge resistance)

RN 184970-57-8 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-diethyl-N-methyl-, bromide, polymer with 2-methyl-2-propenoic acid and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 83305-60-6 CMF C14 H22 N . Br

$$\begin{array}{c|c} \text{Me} & & \\ & \downarrow & \\ \text{Et} & & \text{CH2} \\ & & \\ & & \text{CH} \end{array}$$

• Br-

CM 2

CRN 106-91-2

CMF C7 H10 O3

$$\stackrel{\text{O}}{\stackrel{\text{CH}_2}{\longrightarrow}} \stackrel{\text{O}}{\stackrel{\text{CH}_2}{\parallel}} \stackrel{\text{CH}_2}{\parallel}$$

CM3

CRN 79-41-4 CMF C4 H6 O2

L47 ANSWER 24 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:607517 HCAPLUS

DOCUMENT NUMBER:

125:269849

TITLE:

Chemiluminescent energy transfer assays

INVENTOR(S):

Bronstein, Irena; Edwards, Brooks; Voyta, John

PATENT ASSIGNEE(S):

Tropix, Inc., USA PCT Int. Appl., 62 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.			KI	ND	DATE								DATE				
	WO 9625667			A1 19960822		WO 1995-US1506					19950213							
		W:	AM,	AT,	AU,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	EE,	ES,	FI,
			GB,	GE,	HU,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LK,	LR,	LT,	LU,	LV,	MD,	MG,
			MN,	MW,	MX,	NL,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SI,	SK,	ТJ,	TT,
			UA,	UZ														
		RW:	KE,	MW,	SD,	SZ,	ŪG,	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,
			LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	$\mathtt{ML}_{m{r}}$	MR,	NE,
			SN,	TD,	TG													
	CA	2212	738		A	Ą	1996	0822		C	A 19	95-2	2127	38	1995	0213		
	ΑU	9519	118		A.	1	1996	0904		Αl	J 19	95-1	9118		1995	0213		
	AU	7049 8098	40		B:	2	1999	0506										
	ΈP	8098	04)		A.	1	1997	1203		E:	P 19	95-9	1161	8	1995	0213		
	_	-Ri	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
				SI,														
	JΡ	1150	0222		T	2	1999	0106		J:	P 19	95-5	2490	3	1995	0213		
	ΑU	9943	447		A	1	1999	1028		Αl	J 19	99-4	3447		1999	0806		
PRIOR	PRIORITY APPLN. INFO.: AU 1995-19118 19950213																	
											995-1	US15	06		1995	0213		
OTHER SOURCE(S): MARPAT 125:269849																		
AB A chemiluminescent assay is provided for the detn. of the																		
presence or amt. of a biomol. or biopolymer, e.g., nucleic acid, protein,																		

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hapten, etc. in bound assays by using 1,2-dioxetanes in
     connection with AttoPhos as chemiluminescent substrate for
     enzyme-labeled targets or probes. Further disclosed is a kit for
     conducting a bioassay for the presence or concn. of a biopolymer
     comprising (1) an enzyme complex; (2) a 1,2-dioxetane; and (3)
     AttoPhos. The methods and kits can be used for detections done on
     membranes such as Western, Southern, Northern blotting, and DNA sequencing
     as well as for soln.-phase assays. The invention was used to det.
     prostate-specific antigen, biotinylated DNA, and IgG.
IC
     ICM G01N033-543
     ICS C12Q001-68
     9-5 (Biochemical Methods)
CC
     Section cross-reference(s): 3, 15
     biopolymer detn chemiluminescent energy transfer assay;
ST
     dioxetane chemiluminescent energy transfer assay;
     AttoPhos chemiluminescent energy transfer assay; Ig detection
     chemiluminescent energy transfer assay; blotting
     chemiluminescent energy transfer assay; hybridization
     chemiluminescent energy transfer assay
     Deoxyribonucleic acid sequence determination
ΙT
     Electron acceptors
     Electron donors
     Energy transfer
     Immunoassay
     Nucleic acid hybridization
        (biopolymer detn. by chemiluminescent energy transfer assay)
TΤ
    Biopolymers
     Deoxyribonucleic acids
     Haptens
     Proteins, analysis
     Ribonucleic acids
     RL: ANT (Analyte); ANST (Analytical study)
        (biopolymer detn. by chemiluminescent energy transfer assay)
IT
    Enzymes
     RL: ANT (Analyte); ARG (Analytical reagent use); ANST (Analytical study);
    USES (Uses)
        (biopolymer detn. by chemiluminescent energy transfer assay)
IT
     Polyamide fibers, analysis
     RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST
     (Analytical study); USES (Uses)
        (biopolymer detn. by chemiluminescent energy transfer assay)
IT
     Deoxyribonucleic acids
     RL: ANT (Analyte); ANST (Analytical study)
        (biotinylated; biopolymer detn. by chemiluminescent energy
        transfer assay)
IT
    Antibodies
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (enzyme conjugates; biopolymer detn. by chemiluminescent
        energy transfer assay)
IT
     Immunoglobulins
     RL: ANT (Analyte); ANST (Analytical study)
        (G, biopolymer detn. by chemiluminescent energy transfer
        assay)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PSA (prostate-specific antigen), biopolymer detn. by
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chemiluminescent energy transfer assay)

IT Cameras

(charge-coupled, biopolymer detn. by **chemiluminescent** energy transfer assay)

IT Spectrochemical analysis

(chemiluminescence, biopolymer detn. by chemiluminescent energy transfer assay)

IT Immunoassay

(immunoblotting, biopolymer detn. by **chemiluminescent** energy transfer assay)

TT 6788-84-7D, 1,2-Dioxetane, derivs. 9001-78-9
9013-20-1D, Streptavidin, alk. phosphatase conjugates 9017-80-5,
Poly(vinylbenzyltrimethylammonium chloride) 72852-29-0,
Poly(vinylbenzyltributylammonium chloride) 122341-56-4 124951-96-8
129058-45-3, AttoPhos 142456-88-0 142849-53-4 146985-47-9

151346-38-2 161697-30-9 **181871-50-1**RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (biopolymer detn. by **chemiluminescent** energy transfer assay)

IT 9004-70-0, Nitrocellulose 24937-79-9, PVDF

RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)

(biopolymer detn. by chemiluminescent energy transfer assay)

IT 6788-84-7D, 1,2-Dioxetane, derivs. 181871-50-1

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (biopolymer detn. by chemiluminescent energy transfer assay)

RN 6788-84-7 HCAPLUS

CN 1,2-Dioxetane (6CI, 8CI, 9CI) (CA INDEX NAME)

o— o | |

RN 181871-50-1 HCAPLUS

CN Benzenemethanaminium, N,N,N-tributyl-3-ethenyl-, chloride, polymer with [[3(or 4)-ethenylphenyl]methyl]triphenylphosphonium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 170621-10-0 CMF C21 H36 N . C1

$$(n-Bu)3+N-CH_2$$
 $CH=CH_2$

• c1-

CM 2

CRN 146925-49-7 CMF C27 H24 P . C1 CCI IDS



 $D1-CH=CH_2$

Ph3+P-CH2-D1

● cl-

L47 ANSWER 25 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:571140 HCAPLUS

DOCUMENT NUMBER:

125:223744

TITLE:

Effect of pressure and ionic strength of

polyelectrolyte solutions on transport characteristics

of ultrafiltration membranes

AUTHOR(S):

Bildyukevich, A. V.; Logunova, A. V.; Sokolova, V. I.

CORPORATE SOURCE:

Inst. Fiz.-Org. Khim., Belarus

SOURCE:

Vestsi Akademii Navuk Belarusi, Seryya Khimichnykh

Navuk (1996), (1), 57-60

CODEN: VAKNEK; ISSN: 0002-3590

PUBLISHER:

Navuka i Tekhnika

Journal

DOCUMENT TYPE: LANGUAGE:

Belorussian

Microfiltration of aq. solns. of poly(vinylpyrrolidone), poly(acrylic acid), poly(4-vinyl-N-benzyltrimethylammonium chloride), and poly(methyldiallylammonium chloride) was studied using membranes based on an acrylonitrile copolymer and on an arom. polyamide (Mifil). The polymers are chosen as potential recyclable complexing agents for heavy metals purifn. processes.

38-3 (Plastics Fabrication and Uses) CC

IT Polyamides, uses

RL: DEV (Device component use); USES (Uses)

(arom., ultrafiltration membrane; effect of pressure and ionic strength of polyelectrolyte solns. on transport characteristics of ultrafiltration membranes)

9003-01-4, Poly(acrylic acid) 9003-39-8, Poly(vinylpyrrolidone) IT

26780-21-2, Poly(4-vinyl-N-benzyltrimethylammonium chloride)

29566-78-7, Poly(methyldiallylammonium chloride)

RL: PEP (Physical, engineering or chemical process); PROC (Process) (effect of pressure and ionic strength of polyelectrolyte solns. on transport characteristics of ultrafiltration membranes)

IT 26780-21-2, Poly(4-vinyl-N-benzyltrimethylammonium chloride) RL: PEP (Physical, engineering or chemical process); PROC (Process) (effect of pressure and ionic strength of polyelectrolyte solns. on transport characteristics of ultrafiltration membranes)

RN 26780-21-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

• cl-

L47 ANSWER 26 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:563431 HCAPLUS

DOCUMENT NUMBER:

125:187567

TITLE:

Chemiluminescent detecting method and

apparatus

INVENTOR(S):

Tsuchiya, Tohru; Akimoto, Taizo; Mori, Keiji; Kojima,

Yasushi; Dietzel, Guenter; Petz, Gerhard; Koepke,

Andreas

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE:

Eur. Pat. Appl., 30 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 725278	A1	19960807	EP 1996-101209	19960129
EP 725278	B1	20001206		
R: DE, FR,	GB, SE			
JP 08210983	A2	19960820	JP 1995-15153	19950201
JP 08247949	A2	19960927	JP 1995-51465	19950310
JP 08261941	A2	19961011	JP 1995-59198	19950317
US 5672514	Α	19970930	US 1996-588854	19960119
PRIORITY APPLN. INFO	. :		JP 1995-15153 A	19950201
			JP 1995-51465 A	19950310
			JP 1995-59198 A	19950317

AB A chemiluminescent detecting method includes the steps of uniformly irradiating with radiation a stimulable phosphor sheet formed with a stimulable phosphor layer contg. a stimulable phosphor which can store an energy of radiation and be stimulated by visible light to emit

the energy of radiation in a form of light, thereby storing energy of radiation uniformly therein, selectively labeling a biopolymer with a labeling substance which can produce chemiluminescent light by contact of itself and a chemiluminescent substance, causing the biopolymer labeled with the labeling substance and the chemiluminescent substance to come into contact with each other, and exposing the stimulable phosphor sheet to chemiluminescent light produced by the contact of the biopolymer labeled with the labeling substance and the chemiluminescent substance. According to this chemiluminescent detecting method, it is possible to effectively produce information relating to a biopolymer such as information relating to a gene with high accuracy by using a stimulable phosphor sheet which can be easily handled and used for both the chemiluminescent detecting method and the autoradiog. detecting method. In a preferred aspect of this invention, the chemiluminescent substance contains a sensitizing agent that can change the wavelength of light emitted from the chemiluminescent substance. In another preferred aspect, the stimulable phosphor is a barium fluorohalide phosphor and the sensitizing agent contains poly[vinylbenzyl(benzyldimethy lammonium chloride)] as a main component.

IC ICM G01N033-58

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 9, 73

ST biopolymer chemiluminescent detection app phosphor sheet; gene detection chemiluminescence app; autoradiog phosphor sheet analysis chemiluminescence; nucleic acid hybridization chemiluminescence app

IT Cations

Deoxyribonucleic acid sequence determination

Electron beam

Gamma ray

Nucleic acid hybridization

Phosphors

Polymer-supported reagents

Ribonucleic acid sequence determination

Surfactants

X-ray

(chemiluminescent detecting method and app. for biopolymers)

IT Biopolymers

Gene

Nucleic acids

Proteins, properties

RL: ANT (Analyte); PRP (Properties); ANST (Analytical study)

(chemiluminescent detecting method and app. for biopolymers)

IT Polyamide fibers, analysis

RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)

(chemiluminescent detecting method and app. for biopolymers)

IT Radiography

(auto-, chemiluminescent detecting method and app. for biopolymers)

IT Optical detectors

Spectrochemical analysis

(chemiluminescence, chemiluminescent detecting method and app. for biopolymers)

IT Dyes

(fluorescent, chemiluminescent detecting method and app. for

biopolymers)

21669-04-5, Barium bromide fluoride (BaBrF) 124951-96-8, AMPPD IT RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (chemiluminescent detecting method and app. for biopolymers)

127-09-3, Sodium acetate 518-47-8 7647-14-5, Sodium chloride, analysis IT 9004-82-4 12174-49-1, RUBY 12415-33-7, EMERALD 60311-02-6 114783-41-4

RL: ARU (Analytical role, unclassified); ANST (Analytical study) (chemiluminescent detecting method and app. for biopolymers)

12587-46-1, .alpha.-Particle 12587-47-2, .beta.-Ray IΤ

RL: NUU (Other use, unclassified); USES (Uses)

(chemiluminescent detecting method and app. for biopolymers)

IT

RL: ARU (Analytical role, unclassified); ANST (Analytical study) (chemiluminescent detecting method and app. for biopolymers)

RN 114783-41-4 HCAPLUS

Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, CN homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 66099-76-1 CMF C18 H22 N . C1

● Cl⁻

L47 ANSWER 27 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:472936 HCAPLUS

DOCUMENT NUMBER: 125:181354

Ink-jet recording receptor TITLE: Ikeda, Mitsuhiro; Kato, Makoto INVENTOR(S): Mitsubishi Paper Mills Ltd, Japan PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 11 pp. SOURCE:

CODEN: JKXXAF

Patent DOCUMENT TYPE: Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ _____ 19960604 JP 1994-287035 19941122 JP 08142496 A2 PRIORITY APPLN. INFO.: JP 1994-287035 19941122

The receptor has an ink absorbing layer prepd. by mixing a polymer (A)

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contq. quaternary ammonium salt I (R1-3 = alkyl, aryl, aralkyl; X- = halo
     ion, sulfate, alkylsulfonate, alkylcarbonate) as a monomer unit and
     another polymer (B) contq. II and/or III (R4 = H, Me; Q = O, NH; R5-7 =
    Me, Et; R8-10 = Me, Et, alkyl; X- = same as above; n = 2, 3) as monomer
    unit(s), then 3-dimensionally crosslinking the polymers by an hardening
     agent. The receptor shows good water resistance.
    ICM B41M005-00
TC
    74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other
CC
     Reprographic Processes)
IT
     180330-13-6 180330-14-7 180330-15-8
     180330-16-9 180330-17-0 180330-18-1
     180330-19-2 180330-20-5 180330-21-6
     180330-22-7 180330-23-8 180330-24-9
     180330-25-0 180330-26-1 180330-27-2
     180330-28-3 180330-29-4 180330-30-7
     RL: DEV (Device component use); USES (Uses)
        (ink jet recording receptor contg. crosslinked quaternary ammonium salt
        polymer)
ΙT
     180330-13-6 180330-14-7 180330-15-8
     180330-16-9 180330-17-0 180330-18-1
     180330-19-2 180330-20-5 180330-21-6
     180330-22-7 180330-23-8 180330-24-9
     180330-25-0 180330-26-1 180330-27-2
     180330-28-3 180330-29-4 180330-30-7
     RL: DEV (Device component use); USES (Uses)
        (ink jet recording receptor contg. crosslinked quaternary ammonium salt
        polymer)
RN
    180330-13-6
                 HCAPLUS
    Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with
CN
     1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol,
    N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide,
     4-(1-oxo-2-propenyl)morpholine, 2-propenamide and N,N,N-trimethyl-3-[(1-
     oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)
     CM
          1
        74696-50-7
     CRN
     CMF C15 H26 O8
```

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● cl-

CM 3

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

$$\begin{array}{c|c} \circ \\ | \\ c - ch = ch_2 \end{array}$$

CM 5

$$\begin{array}{c} & \text{O} \\ || \\ \text{Me}_{2}\text{N}-\text{(CH}_{2})_{3}-\text{NH}-\text{C}-\text{CH} \underline{=}\text{CH}_{2} \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

CM 7

CRN 79-06-1 CMF C3 H5 N O

RN 180330-14-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c}
O \\
|| \\
Me3^+N^- (CH_2)_3^-NH^-C^-CH^- CH_2
\end{array}$$

● Cl-

CM 3

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

CM 5

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{(CH}_2)_3 - \text{NH} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

CM 6

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel & \parallel \\ \text{Me}_2\text{N---} \text{CH}_2\text{----} \text{CH}_2\text{----} \text{O---} \text{C----} \text{Me} \end{array}$$

CM 7

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 8

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \circ \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

RN 180330-15-8 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-triethyl-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

 $Me_3+N-(CH_2)_3-NH-C-CH=CH_2$

● Cl-

CM 3

CRN 14350-43-7 CMF C15 H24 N . C1

$$Et_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

CM 5

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N- (CH}_2)_3 - \text{NH- C- CH- CH} \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 7

CRN 79-06-1 CMF C3 H5 N O

RN 180330-16-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

● Cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● Cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

CM 5

$$\begin{array}{c|c}
 & O \\
 & || \\
 & \text{Me}_2\text{N}-\text{(CH}_2)_3-\text{NH}-\text{C}-\text{CH}-\text{CH}_2
\end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

CM 7

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \mathsf{O} \\ || \\ \mathsf{H}_2\mathsf{N} - \mathsf{C} - \mathsf{C} \mathsf{H} \overline{---} \mathsf{C} \mathsf{H}_2 \end{matrix}$$

RN 180330-17-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . C1

$$\begin{array}{c|c} \text{Me} & & \\ & \downarrow \\ \text{Ph-CH}_2 - N \xrightarrow{+} \text{CH}_2 \\ & & \\ & \text{Me} & & \\ &$$

● Cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● cl-

CM 4

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-(CH}_2)_3 - \text{NH-C-CH} \end{array}$$

CM 5

CRN 79-06-1 CMF C3 H5 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_2\text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

180330-18-1 HCAPLUS RN

Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, CN polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2propenamide, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM

CRN 66099-76-1 CMF C18 H22 N . C1

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Ph-CH}_2 - \text{N} \\ | \\ | \\ \text{Me} \end{array} \\ \text{CH-CH}_2$$

● cl-

3 CM

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

• cl-

CM 4

CRN 3845-76-9 CMF C8 H16 N2 O

CM 5

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

CM 6

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} & \text{CH}_2 \end{matrix}$$

RN 180330-19-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N, N-dimethyl-2-propenamide and N, N, N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 66099-76-1 CMF C18 H22 N . Cl

• c1-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

• c1-

CM 4

$$\begin{array}{c} & \text{O} \\ || \\ \text{Me}_2 \text{N-- (CH}_2)_3 - \text{NH--C--CH-----} \text{CH}_2 \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

RN 180330-20-5 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Ph-CH}_2 - \text{N} \stackrel{+}{\longrightarrow} \text{CH}_2 \\ \text{Me} \\ \end{array}$$

● Cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$^{\circ}_{\parallel}$$
 Me₃+N-(CH₂)₃-NH-C-CH-CH₂

● cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

$$\begin{array}{c|c} \text{O} \\ \text{C-CH} \end{array} \text{CH}_2$$

CM 5

$$\begin{array}{c|c}
 & O \\
 & || \\
 & Me_2N- (CH_2)_3-NH-C-CH = CH_2
\end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

RN 180330-21-6 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

• cl-

CRN 45021-77-0 CMF C9 H19 N2 O . C1

 $Me_3+N-(CH_2)_3-NH-C-CH=CH_2$

● c1-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

$$\begin{array}{c|c}
 & O \\
 & C - CH = CH_2
\end{array}$$

CM 5

CRN 3845-76-9 CMF C8 H16 N2 O

RN 180330-22-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 66099-76-1 CMF C18 H22 N . C1

● cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . C1

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● C1-

CM 4

CRN 868-77-9 CMF C6 H10 O3

CM 6

CRN 79-06-1 CMF C3 H5 N O

RN 180330-23-8 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-[3-(dimethylamino)propyl]-2-propenamide, N, N-dimethyl-2-propenamide, 2-propenamide and N, N, N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Ph--CH}_2 - \text{N} \stackrel{+}{\longrightarrow} \text{CH}_2 \\ \text{Me} \end{array}$$

● c1-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● cl-

CM 4

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-} \text{(CH}_2\text{)}_3 - \text{NH-C-CH-} \text{CH}_2 \end{array}$$

CM 5

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & \parallel & \parallel \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

CM 7

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

RN 180330-24-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM]

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$^{\circ}_{\parallel}$$
 Me₃+N- (CH₂)₃-NH-C-CH== CH₂

● cl-

CM 3

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● Cl -

CM 4

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{(CH}_2)_3 - \text{NH} - \text{C} - \text{CH} \Longrightarrow \text{CH}_2 \end{array}$$

CM 5

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 6

CRN 79-06-1 CMF C3 H5 N O

RN 180330-25-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3^+N^-$$
 (CH₂)₃-NH-C-CH= CH₂

● Cl -

CM 3

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● Cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

$$\begin{array}{c|c} \text{O} & \\ \text{C-CH---} \text{CH}_2 \\ \end{array}$$

CM 5

CRN 3845-76-9 CMF C8 H16 N2 O

CM 6

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

RN 180330-26-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 2-propenamide and N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Ph-CH}_2 - \overset{+}{\underset{\text{Me}}{\overset{\text{}}{\bigvee}}} \text{CH}_2 \\ \text{Me} \end{array}$$

● Cl-

CM 3

CRN 44992-01-0 CMF C8 H16 N O2 . Cl

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{CH} == \text{CH}_2 \end{array}$$

● c1-

CM 4

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c|c}
 & O \\
 & || \\
 & Me_2N-(CH_2)_3-NH-C-CH=CH=CH_2
\end{array}$$

CM 5

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

CM 6

CRN 2680-03-7 CMF C5 H9 N O

CM 7

CRN 79-06-1 CMF C3 H5 N O

RN 180330-27-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7

CMF C15 H26 O8

CM 2

CRN 66099-76-1 CMF C18 H22 N . C1

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Ph-CH}_2 - \text{N} \xrightarrow{+} \text{CH}_2 \\ | \\ | \\ \text{Me} \end{array}$$

● cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● Cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

CRN 3845-76-9 CMF C8 H16 N2 O

CM 6

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & \parallel & \parallel \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{O}-\text{C}-\text{C}-\text{Me} \end{array}$$

CM 7

CRN 2680-03-7 CMF C5 H9 N O

RN 180330-28-3 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-[3-(dimethylamino)propyl]-2-propenamide, 4-(1-oxo-2-propenyl)morpholine and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 66099-76-1 CMF C18 H22 N . C1

• c1-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3^+N^- (CH_2)_3^-NH^-C^-CH^{==}CH_2$$

● cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} & \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{(CH}_2)_3 - \text{NH} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 6

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

RN 180330-29-4 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N, N-dimethyl-N-(phenylmethyl)-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 4-(1-oxo-2-propenyl)morpholine, 2-propenamide and N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 66099-76-1 CMF C18 H22 N . C1

● Cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3^+N^-$$
 (CH₂) $_3^-NH^-C^-$ CH $_2^-$ CH₂

● Cl-

CM 4

CRN 5117-12-4 CMF C7 H11 N O2

$$\begin{array}{c|c}
0 \\
\parallel \\
C-CH \longrightarrow CH_2
\end{array}$$

CM 5

CRN 2867-47-2 CMF C8 H15 N O2

7 CM

CRN 2680-03-7 CMF C5 H9 N O

CM 8

CRN 79-06-1 CMF C3 H5 N O

RN 180330-30-7 HCAPLUS

Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with CN 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate, 2-propenamide and N, N, N-trimethyl-3-[(1-oxo-2-propenyl)amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3^+N^-$$
 (CH₂)₃-NH-C-CH=CH₂

● cl-

CM 3

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● Cl-

CM 4

$$\begin{array}{c} & \text{O} \\ || \\ \text{Me}_2 \text{N}- \text{(CH}_2)} \\ 3- \text{NH}- \text{C}- \text{CH} = \text{CH}_2 \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CM 6

CRN 868-77-9 CMF C6 H10 O3

CM 7

CRN 79-06-1 CMF C3 H5 N O

L47 ANSWER 28 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:304013 HCAPLUS

124:337329 DOCUMENT NUMBER:

TITLE: Chemiluminescent reagent and assay using a substituted acetanilide for light generation

INVENTOR(S): Kissel, Thomas R.; Fingar, Sarah A.; Friedman, Alan E. PATENT ASSIGNEE(S): Johnson and Johnson clinical Diagnostics, Inc., USA

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 704539	A2	19960403	EP 1995-306012	19950829
EP 704539	A3	19960410		
EP 704539	В1	20010228		
R: AT, BE,	CH, DE	, DK, ES, FR,	GB, GR, IE, IT, LI	, LU, MC, NL, PT, SE

```
US 5705357
                           19980106
                                          US 1994-297475
                                                           19940829
                      Α
                                          JP 1995-217831
                                                           19950825
     JP 08173191
                      A2
                           19960709
     CA 2157062
                      AA 19960301
                                          CA 1995-2157062 19950828
                           19960301
                                          FI 1995-4029
     FI 9504029
                     Α
                                                           19950828
                     Α
                           19960301
                                         NO 1995-3368
    NO 9503368
                                                           19950828
                     A1
    AU 9530301
                         19960314
                                          AU 1995-30301
                                                          19950828
    AU 700528
AT 199399
                     B2 19990107
                                          AT 1995-306012 19950829
                     E
                           20010315
PRIORITY APPLN. INFO.:
                                       US 1994-297475 A 19940829
                        MARPAT 124:337329
OTHER SOURCE(S):
    A simplified compn. for generating a chemiluminescent signal in
     the presence of a peroxidase includes a substituted acetanilide, e.g.,
     3'-chloro-4'-hydroxyacetanilide or 3'-bromo-4'-hydroxyacetanilide, as the
     sole light-producing substrate for the peroxidase. Assays for various
     analytes can be carried out with this compn. at near neutral pH, exhibit
     low background, and are highly sensitive. The prepn. is described of
     anal. elements contg. the reagents of this invention, and examples are
     given of the immunoassay of TSH as well as detn. of peroxidase in a fungus
    using the described reagents.
    ICM C12Q001-28
IC
    ICS G01N033-535
ICA G01N033-58; C12Q001-68
CC
     9-5 (Biochemical Methods)
     Section cross-reference(s): 7, 15, 80
     chemiluminescent reagent substituted acetanilide peroxidase
ST
     detection; app chemiluminescent reagent biochem analysis;
     immunoassay chemiluminescence peroxidase detection reagent
IT
    Arthromyces ramosus
    Buffer substances and systems
     Fungi
     Oxidizing agents
     Polymer-supported reagents
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
TΤ
     Gelatins, analysis
     RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use);
    ANST (Analytical study); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IT
     Polyelectrolytes
     Surfactants
        (cationic, chemiluminescent reagent and assay using
        substituted acetanilide for light generation)
IT
     Luminescent substances
        (chemi-, chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IT
     Immunoassay
     Spectrochemical analysis
        (chemiluminescence, chemiluminescent reagent and
        assay using substituted acetanilide for light generation)
     9002-71-5, TSH
IT
     RL: ANT (Analyte); ANST (Analytical study)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IT
     9003-99-0, Peroxidase
     RL: ANT (Analyte); ARG (Analytical reagent use); ANST (Analytical study);
     USES (Uses)
```

```
(chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IT
     7722-84-1, Hydrogen peroxide, analysis
     RL: ANT (Analyte); ARU (Analytical role, unclassified); MOA (Modifier or
     additive use); ANST (Analytical study); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IT
     2045-39-8, 3'-Fluoro-4'-hydroxyacetanilide 103015-83-4
                                                                105326-71-4
     176661-64-6
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
ΙT
     103-84-4DP, Acetanilide, substituted
                                           3964-54-3P, 3'-Chloro-4'-
     hydroxyacetanilide
                          6329-78-8P, 3'-Bromo-4'-hydroxyacetanilide
     79694-26-1P, 3',5'-Dichloro-4'-hydroxyacetanilide
     RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
     (Analytical study); PREP (Preparation); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
     25038-59-9, Polyethylene terephthalate, analysis
IT
     RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST
     (Analytical study); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
TΤ
     57-09-0, Cetyltrimethylammonium bromide 67-43-6,
     Diethylenetriaminepentaacetic acid 77-86-1 112-02-7,
     Cetyltrimethylammonium chloride 123-03-5, Cetylpyridinium chloride
     9002-93-1, Triton x-100 9069-59-4, Methacrylic acid-vinyltoluene
                57534-41-5, Zonyl FSN 74921-88-3
     copolymer
                                                     176661-58-8
     176661-60-2 176661-63-5
     RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use);
     ANST (Analytical study); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IT
    103-90-2, 4'-Hydroxyacetanilide 42486-53-3, 4-Amino-2,6-dichlorophenol
    hydrochloride
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
IΤ
     176661-60-2 176661-63-5
    RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use);
    ANST (Analytical study); USES (Uses)
        (chemiluminescent reagent and assay using substituted
        acetanilide for light generation)
RN
    176661-60-2 HCAPLUS
    Benzenemethanaminium, 3-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride,
    polymer with diethenylbenzene, ethenylbenzene and 4-ethenyl-N, N-dimethyl-N-
     (phenylmethyl)benzenemethanaminium chloride (9CI) (CA INDEX NAME)
    CM
    CRN 176661-59-9
    CMF C18 H22 N . C1
```

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Ph-CH}_2 - \text{N} \\ | \\ | \\ \text{Me} \end{array} \quad \text{CH} \\ = \text{CH}_2$$

● cl-

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Ph-CH}_2 - \text{N} \xrightarrow{+} \text{CH}_2 \\ | \\ | \\ \text{Me} \end{array}$$

● c1-

CM 3

CRN 1321-74-0 CMF C10 H10 CCI IDS

CM 4

CRN 100-42-5 CMF C8 H8 $H_2C = CH - Ph$

RN 176661-63-5 HCAPLUS

CN Benzenemethanaminium, N-cyclohexyl-3-ethenyl-N-methyl-N-(phenylmethyl)-, chloride, polymer with N-cyclohexyl-4-ethenyl-N-methyl-N(phenylmethyl)benzenemethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 176661-62-4 CMF C23 H30 N . C1

• c1-

CM 2

CRN 176661-61-3 CMF C23 H30 N . Cl

● cl-

L47 ANSWER 29 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:200426 HCAPLUS

DOCUMENT NUMBER: 124:279186

TITLE: Phosphate-binding polymers for oral administration INVENTOR(S): Holmes Farley, Stephen R.; Mandeville, Iii W. Harry;

Whitesides, George M.

PATENT ASSIGNEE(S): Geltex Pharmaceuticals, Inc., USA

SOURCE: U.S., 11 pp., Cont.-in-part of U.S. Ser. No. 105,591,

abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PA	TENT NO.	KIND	DATE		AP:	PLICATION	NO.	DATE			
US		A	19960305					19940505			
CA	2169356	AA	19950223 19950223 20030527		CA	1994-216	9356	19940810			
CA	2310960	AA	19950223		CA	1994-231	.0960	19940810			
CA	2310960	С	20030527								
CA	2402590	AA	19950223		CA	1994-240	2590	19940810			
WO	9505184	A2	19950223 19950323		WO	1994-US9	060	19940810			
WO	9505184	A3	19950323								
	W: AU, CA,	JP, KR	, NZ								
	RW: AT, BE,	CH, DE	, DK, ES,	FR,	GB,	GR, IE, I	T, LU,	MC, NL,	PT,	SE	
AU	9475607	A1	19950314		AU	1994-756	507	19940810	•		
AU	689797	B2	19980409								
EP	716606	A1	19960619		EP	1994-925	819	19940810			
EP	716606										
	R: AT, BE,	CH, DE	, DK, ES,	FR,	GB, G	GR, IE, I	T, LI,	LU, MC,	NL.	PT.	SE
NZ	271826	À	20000623	•	ΝZ	1994-271	.826	19940810		,	
JP	3113283	В2	20000623 20001127		JP	1995-507	065	19940810			
JP	09504792	ጥጋ	10070512								
JP	2001055336	A2	20010227		JP	2000-201	107	19940810			
AT	2001055336 204756	E	20010915		AT	1994-925	819	19940810			
EP	1133989	_ A2	20010919		EP	2001-200	604	19940810			
	R: AT, BE,								MC.	PT.	ΙE
ES	2161780	т3	20011216	•	ES.	1994-925	819	19940810	,	,	
PT	2161780 716606	T	20011216 20020228		PT	1994-949	25819	19940810			
US	5667775	Α	19970916		US	1995-471	747	19950606			
	1187131	Α	19980708 20000704 20011228		CN	1996-194	612	19960603			
US	6083495	Α	20000704		US	1997-929	784	19970915			
HK	1009243	A1	20011228		HK	1998-109	833	19980811			
US	6509013	В1	20030121		US	2000-542	329				
US	2003133902							20021217			
	APPLN. INFO.					93-105591					
						94-238458		19940505			
						94-216935					
						94-231096					
						94-925819		19940810			
						95-507065					
						94-US9060					
				1	US 199	95-471747	A3	19950606			
				1	US 199	97-929784	A1	19950606 19970915			
				1	US 200	00-542329	A1	20000404			
AB Pho	sphate-bindir		mers are p	prov	ided 1	for remov	ing ph		From	the	

- AB Phosphate-binding polymers are provided for removing phosphate from the gastrointestinal tract. The polymers are orally administered, and are useful for the treatment of hyperphosphatemia. For example, allylamine-epichlorohydrin copolymer was tested by stirring it in a phosphate contg. soln. at pH 7 for 3 h; after 3 h the polymer was filtered off and the residual phosphate concn. in the test soln. was detd. The phosphate bound to the polymer was 3.1 meq/g of the polymer.
- IC ICM A61K031-785
- NCL 424078110
- CC 1-9 (Pharmacology)
 - Section cross-reference(s): 35
- IT 79-17-4DP, Aminoguanidine, reaction products with poly(methacryloyl

```
chloride) 107-15-3DP, Ethylenediamine, reaction products with Me
     methacrylate-divinylbenzene copolymer 111-40-0DP, Diethylenetriamine,
     reaction products with Me methacrylate-divinylbenzene copolymer
     814-68-6DP, Acryloyl chloride, reaction products with Polyethyleneimine
     2482-00-0DP, Agmatine sulfate, reaction products with poly(methacryloyl
     chloride)
                 25085-17-0P, Diethylenetriamine-epichlorohydrin copolymer
     26336-38-9P, Poly(vinylamine) 26913-06-4DP, Poly[imino(1,2-ethanediyl)],
     reaction products with acryloyl chloride
                                                26913-06-4P,
     Poly[imino(1,2-ethanediyl)]
                                 34369-44-3P
                                                52757-95-6P,
     Allylamine-epichlorohydrin copolymer
                                           57491-00-6P,
     Poly(allyltrimethylammonium chloride) 68039-13-4P,
     Poly(methacrylamidopropyltrimethylammonium chloride)
                                                            124012-04-0P
                   162786-36-9DP, Divinylbenzene-methacryloyl chloride
     copolymer, reaction products with agmatine
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (phosphate-binding polymers for treatment of hyperphosphatemia)
IT
     50-81-7D, Ascorbic acid, reaction products with polyethyleneimine-
     epichlorohydrin 77-92-9D, Citric acid, reaction products with
     polyethyleneimine-epichlorohydrin 87-69-4D, Tartaric acid, reaction
                                                      104-78-9D, reaction
     products with polyethyleneimine-epichlorohydrin
     products with Me methacrylate-divinylbenzene copolymer 110-15-6D,
     Succinic acid, reaction products with polyethyleneimine-epichlorohydrin
     112-24-3D, Triethylenetetramine, reaction products with Me
     methacrylate-divinylbenzene copolymer 112-57-2D, Tetraethylenepentamine,
     reaction products with Me methacrylate-divinylbenzene copolymer
     4067-16-7D, Pentaethylenehexamine, reaction products with Me
     methacrylate-divinylbenzene copolymer 7664-93-9D, Sulfuric acid,
     reaction products with polyethyleneimine-epichlorohydrin 26338-45-4D,
                 27754-92-3 37339-48-3
     methylated
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
        (phosphate-binding polymers for treatment of hyperphosphatemia)
     107-15-3DP, Ethylenediamine, reaction products with Me
ΙT
     methacrylate-divinylbenzene copolymer
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (phosphate-binding polymers for treatment of hyperphosphatemia)
RN
     107-15-3 HCAPLUS
CN
     1,2-Ethanediamine (9CI) (CA INDEX NAME)
```

H2N-CH2-CH2-NH2

IT 37339-48-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphate-binding polymers for treatment of hyperphosphatemia)

RN 37339-48-3 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with diethenylbenzene (9CI) (CA INDEX NAME)

CRN 7538-38-7 CMF C12 H18 N . Cl

 $Me_3^+N-CH_2$ $CH=CH_2$

● Cl -

CM 2

CRN 1321-74-0 CMF C10 H10 CCI IDS



2 D1-CH=CH2

L47 ANSWER 30 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:178482 HCAPLUS

DOCUMENT NUMBER: 124:233511

TITLE: Molecular characterization of synthetic cationic

polyelectrolytes

AUTHOR(S): Wandrey, Christine; Goernitz, Eckhard

CORPORATE SOURCE: Max-Planck-Inst. Kolloid- Grenzflaechenforsch.,

Teltow, D-14513, Germany

SOURCE: Polymer News (1995), 20(12), 377-84

CODEN: PLYNBU; ISSN: 0032-3918

PUBLISHER: Gordon & Breach

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review, with 51 refs., is given on methods for mol. characterization of synthetic cationic polyelectrolytes. Data of detn. of mol. wt. and mol. wt. distribution of important or new cationic ammonium homo- and co-polymers [polyacrylamides] are summarized and special problems resulting from polyelectrolyte effects are discussed. The Mark-Kuhn-Houwink-Sakurada relationship and the mol. wt. distribution results are influenced by electrochem. parameters and the chem. structure of a polyelectrolyte.

36-0 (Physical Properties of Synthetic High Polymers) CC

IT Polyamides, properties

RL: PRP (Properties)

(acrylic, quaternary ammonium contg.; mol. characterization of synthetic cationic polyelectrolytes)

26062-79-3, Poly(diallyldimethylammonium chloride) 26161-33-1, IT Poly(methacryloyloxyethyltrimethylammonium chloride) 26780-21-2, Poly[(p-vinylbenzyl)trimethylammonium chloride] 54076-97-0, Poly[2-(acryloxy)ethyltrimethylammonium chloride] 71550-12-4, Poly(allylammonium chloride)

RL: PRP (Properties)

(mol. characterization of synthetic cationic polyelectrolytes)

26780-21-2, Poly[(p-vinylbenzyl)trimethylammonium chloride] IT

RL: PRP (Properties)

(mol. characterization of synthetic cationic polyelectrolytes)

26780-21-2 HCAPLUS RN

Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, homopolymer CN (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

 Me_3+N-CH_2 CH== CH2

● cl-

L47 ANSWER 31 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:10209 HCAPLUS

DOCUMENT NUMBER:

124:57322

TITLE:

Hydrophobic and electrostatic interactions in

water-soluble associating copolymers

AUTHOR(S):

Selb, Joseph; Biggs, Simon; Renoux, Delphine; Candau,

Francoise

CORPORATE SOURCE:

Inst. Charles Sadron, Cent. Recherches Macromol.-Ecole

d; Appl. Hauts Polymeres, Strasbourg, 67083, Fr.

SOURCE:

Advances in Chemistry Series (1996), 248 (Hydrophilic

Polymers), 251-78

PUBLISHER:

CODEN: ADCSAJ; ISSN: 0065-2393 American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Associative polyacrylamide derivs. contg. both ionic sites and small nos. of hydrophobic groups were prepd., and their thickening properties in aq. soln. were studied. Two radical micellar copolymn. processes in aq. media were used: the comonomer of acrylamide was either a hydrophobic monomer (N-ethylphenyl acrylamide) solubilized within surfactant micelles (sodium

dodecyl sulfate) or a micelle-forming cationically polymerizable surfactant (n-hexadecyldimethyl-4-vinylbenzylammonium chloride). Relationships between the copolymn. mechanism and the copolymer microstructure are proposed. Owing to the competition between attractive hydrophobic interactions and repulsive electrostatic interactions, such hydrophobically modified polyacrylamides exhibit different rheol. behavior in aq. soln., depending on shear rate, shear time, ionic strength, and copolymer characteristics.

CC 36-5 (Physical Properties of Synthetic High Polymers) Section cross-reference(s): 66

IT Polyamides, properties

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (acrylic, hydrophobic and electrostatic interactions in water-sol. assocg. acrylamide copolymers)

IT 112218-43-6, Acrylamide-N-4-ethylphenyl acrylamide copolymer

172333-86-7

RL: PRP (Properties)

(hydrophobic and electrostatic interactions in water-sol. assocg. acrylamide copolymers)

IT 172333-86-7

RL: PRP (Properties)

(hydrophobic and electrostatic interactions in water-sol. assocg. acrylamide copolymers)

RN 172333-86-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-hexadecyl-N,N-dimethyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 87810-16-0 CMF C27 H48 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Me}-\text{(CH2)}_{15}\text{-}\text{N} \\ \text{-}\text{CH2} \\ \text{Me} \end{array}$$

• c1-

CM 2

CRN 79-06-1 CMF C3 H5 N O

L47 ANSWER 32 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:982873 HCAPLUS

DOCUMENT NUMBER:

124:160424

TITLE:

Ink-jet recording material with improved transparency

and gloss

INVENTOR(S):

Ikeda, Mitsuhiro; Furukawa, Akira; Kato, Makoto

PATENT ASSIGNEE(S): SOURCE:

Mitsubishi Paper Mills Ltd, Japan Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07257016	A2	19951009	JP 1994-48355	19940318
PRIORITY APPLN. INFO.	:		JP 1994-48355	19940318
				, , ,

- The material consists of a support coated with an ink-absorbing layer contg. a water-sol. quaternary ammonium salt-contg. polymer and a layer contg. org. polymer fine particles (ink-absorbing layer coverage ratio 1-50 wt.%) and 1-100 wt.% of an alc.— or water-sol. polymer (<0.3 g/m2). The quaternary ammonium salt-contg. polymer may obtained by polymn. of CH2:C(R1)[C(:O)Q(CH2)nN+R2R3R4.X-, a styrene deriv. I, and CH2:CHCH2N+R8R9R10.X- (R1 = H, Me; Q = O, NH; R2-7 = Me, Et; X- = halo, S03-, alkylsulfonic acid anion, AcO-, alkylcarboxylic acid anion; n = 2, 3; R8-10 = Me, Et, allyl). The material showed good transparency and water resistance.
- IC ICM B41M005-00
- CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 38
- TT 26590-05-6P, Acrylamide-diallyldimethylammonium chloride copolymer 73363-10-7P 75150-29-7P 172785-52-3P 172785-53-4P 173255-41-9P 173255-42-0P 173255-43-1P 173255-44-2P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(ink-jet recording materials having quaternary ammonium salt-contg. polymer ink-absorbing layer with good gloss and transparency)

IT 73363-10-7P 173255-41-9P 173255-42-0P

173255-43-1P 173255-44-2P

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(ink-jet recording materials having quaternary ammonium salt-contg. polymer ink-absorbing layer with good gloss and transparency)

RN 73363-10-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 $CH=CH_2$

• c1-

CM 2

CRN 79-06-1 CMF C3 H5 N O

RN 173255-41-9 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● Cl-

CM 2

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2 \text{N-CH}_2 \text{--CH}_2 \text{--O-C-C-Me} \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CM 4

CRN 868-77-9 CMF C6 H10 O3

RN 173255-42-0 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

• c1-

CM 2

CRN 5039-78-1 CMF C9 H18 N O2 . Cl

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & || & || \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

● cl -

CM 3

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c} \text{O} \quad \text{CH}_2 \\ \parallel \quad \parallel \\ \text{Me}_2 \text{N-CH}_2 \text{--CH}_2 \text{--O-C-C-Me} \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

RN 173255-43-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^{+N-CH_2}$$
 CH

● Cl -

CM 2

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2\text{N-CH}_2\text{--CH}_2\text{--O-C-C-Me} \end{array}$$

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 4

CRN 868-77-9 CMF C6 H10 O3

$$\begin{array}{c|c} ^{\rm H_2C} & {\rm O} \\ & \parallel & \parallel \\ ^{\rm Me-} & {\rm C-C-O-CH_2-CH_2-OH} \end{array}$$

RN 173255-44-2 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8 CMF C8 H16 N . Cl

$$\begin{array}{c} \text{Me} \\ \downarrow_{+} \\ \text{CH-CH}_{2} - \text{N} \\ \downarrow \\ \text{Me} \end{array} \text{CH}_{2} - \text{CH} \\ = \text{CH}_{2}$$

● cl-

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel & \parallel \\ \text{Me}_2\text{N--} & \text{CH}_2\text{--} & \text{CH}_2\text{--} & \text{O--} & \text{C--} & \text{Me} \end{array}$$

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 4

CRN 868-77-9 CMF C6 H10 O3

L47 ANSWER 33 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:973924 HCAPLUS

DOCUMENT NUMBER: 124:131568

TITLE: Ink-jet recording receptor with good transparency and

glossiness

INVENTOR(S): Furukawa, Akira; Kato, Makoto
PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 07242057	A2	19950919	JP 1994-33698	19940303	
PRIORITY APPLN. IN	FO.:		JP 1994-33698	19940303	
AB The receptor	comprises	on a suppor	rt successively (1) a	n ink-absorbing	
laver contg.	a water-s	ol. polymer	with quaternary ammo	nium salt group	and

layer contg. a water-sol. polymer with quaternary ammonium salt group and
(2) a layer contg. silica fine particles and a water and alc.-sol. polymer

10-150% of silica with ink-layer coverage of the polymer .ltoreq.0.38/m2 and the silica particles in the range of 5-50%. The receptor shows good ink absorption, high glossiness, transparency and water-resistance.

IC ICM B41M005-00

ICS D21H019-38; D21H019-44

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT **73363-10-7** 75150-29-7 172785-52-3 173341-85-0

173341-86-1 173341-87-2 173341-88-3

173341-89-4 173341-90-7

RL: DEV (Device component use); USES (Uses)

(ink-jet recording receptor with ink-absorbing layer contg. polymer with quaternary ammonium group)

IT 73363-10-7 173341-86-1 173341-87-2

173341-88-3 173341-89-4 173341-90-7

RL: DEV (Device component use); USES (Uses)

(ink-jet recording receptor with ink-absorbing layer contg. polymer with quaternary ammonium group)

RN 73363-10-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH-CH_2$

● Cl-

CM 2

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \longrightarrow \text{CH}_2 \end{matrix}$$

RN 173341-86-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N,N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 2

CRN 7398-69-8 CMF C8 H16 N . Cl

$$\begin{array}{c} \text{Me} \\ | \\ | \\ + \\ \text{CH-CH}_2 - \text{N} \xrightarrow{+} \text{CH}_2 - \text{CH} \Longrightarrow \text{CH}_2 \\ | \\ \text{Me} \end{array}$$

● c1-

CM 3

CRN 79-06-1 CMF C3 H5 N O

RN 173341-87-2 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[2-(dimethylamino)ethyl]-2-methyl-2-propenamide, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

• cl-

CM 3

CRN 13081-44-2 CMF C8 H16 N2 O

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{C}-\text{C}-\text{Me} \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 5

CRN 868-77-9 CMF C6 H10 O3

RN 173341-88-3 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, N-[2-(dimethylamino)ethyl]-2-propenamide, N,N-dimethyl-2-propenamide and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)amino]ethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 69174-85-2 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & || & || \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} - \text{C} - \text{Me} \end{array}$$

● cl-

CM 3

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH==CH_2$$

● cl-

CM

CRN 2680-03-7 CMF C5 H9 N O

5 CM

CRN 925-76-8 CMF C7 H14 N2 O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_{2} \text{N} - \text{CH}_{2} - \text{CH}_{2} - \text{NH} - \text{C} - \text{CH} = \text{CH}_{2} \end{array}$$

RN173341-89-4 HCAPLUS

CNBenzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 1-[2,3-bis(oxiranylmethoxy)propoxy]-3-(oxiranylmethoxy)-2-propanol, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM

CRN 74696-50-7 CMF C15 H26 O8

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● c1-

CM 3

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{O}-\text{C}-\text{C}-\text{Me} \end{array}$$

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 5

CRN 868-77-9 CMF C6 H10 O3

RN 173341-90-7 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with $1-[2,3-bis\ (oxiranylmethoxy)\ propoxy]-3-(oxiranylmethoxy)-2-propanol,$

N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 74696-50-7 CMF C15 H26 O8

CM 2

CRN 7398-69-8 CMF C8 H16 N . Cl

$$\begin{array}{c} \text{Me} \\ \mid_{+} \\ \text{CH}_2\text{C} \longrightarrow \text{CH}_2 - \text{CH} \longrightarrow \text{CH}_2 \\ \mid_{\text{Me}} \end{array}$$

● cl-

CM 3

CRN 5039-78-1 CMF C9 H18 N O2 . Cl

● c1-

CRN 2680-03-7 CMF C5 H9 N O

 $\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$

CM 5

CRN 868-77-9 CMF C6 H10 O3

L47 ANSWER 34 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:973923 HCAPLUS

DOCUMENT NUMBER: 124:131567

TITLE: Lustered ink-jet recording material with good

transparency

INVENTOR(S): Suzaki, Katsumitsu; Furukawa, Akira; Kato, Makoto

PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07242056	A2	19950919	JP 1994-33697	19940303
PRIORITY APPIN THEO	•		TP 1994-33697	19940303

- The recording material comprises a support successively coated with an ink-absorbing layer contg. a quaternary ammonium base-contg. water-sol. polymer and an overcoat layer contg. SiO2 fine particles with ink-absorbing layer coverage 5-50 wt.% and 10-150% (based on SiO2) of a water-sol. and alc.-insol. polymer with coating amt. 0.3 g/m2. The water-sol. polymer may be obtained from CH2:CR1COQ(CH2)nN+R2R3R4.X-, styrene deriv. I, or CH2:CHCH2N+R2R3R4.X- (R1 = H, Me; R2-7 = Me, Et; R8-10 = Me, Et, allyl; Q = O, NH; X = halogen ion, sulfonic acid anion, alkylsulfonic acid anion, MeCO2-, alkylcarboxylic acid anion; n = 2, 3). The material showed good water resistance.
- IC ICM B41M005-00

ICS D21H019-38; D21H019-44

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 42 TT 26590-05-6, Acrylamide-diallyldimethylammonium chloride copolymer 73363-10-7 75150-29-7 172785-52-3 173027-26-4

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-absorbing layer; ink-jet printing sheet coated with silica-contg. water-sol. and alc.-insol. polymer overcoat layer with luster and good transparency)

TT 79-39-0D, Methacrylamide, polymers 88-12-0, processes 818-61-1D, polymers 923-26-2D, 2-Hydroxypropyl methacrylate, polymers 924-42-5D, N-Methylolacrylamide, polymers 999-61-1D, polymers 2210-25-5D, polymers 2680-03-7D, N,N-Dimethylacrylamide, polymers 2873-97-4D, Diacetone acrylamide, polymers 9002-89-5, Poly(vinyl alcohol) 9005-25-8, Starch, processes 9080-79-9, Poly(styrenesulfonic acid) sodium salt 25549-84-2, Poly(acrylic acid) sodium salt RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-jet printing sheet coated with silica-contg. water-sol. and alc.-insol. polymer overcoat layer with luster and good transparency)

IT 73363-10-7

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-absorbing layer; ink-jet printing sheet coated with silica-contg. water-sol. and alc.-insol. polymer overcoat layer with luster and good transparency)

RN 73363-10-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . C1

● cl-

CM 2

CRN 79-06-1 CMF C3 H5 N O

ΙT 2680-03-7D, N,N-Dimethylacrylamide, polymers

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-jet printing sheet coated with silica-contg. water-sol. and alc.-insol. polymer overcoat layer with luster and good transparency)

2680-03-7 HCAPLUS RN

CN 2-Propenamide, N, N-dimethyl- (9CI) (CA INDEX NAME)

Me₂N-C-CH-CH₂

L47 ANSWER 35 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:973922 HCAPLUS

DOCUMENT NUMBER:

124:160422

TITLE:

Lustered ink-jet recording material with good

transparency

INVENTOR(S):

Sekine, Mikya; Furukawa, Akira; Kato, Makoto

PATENT ASSIGNEE(S):

Mitsubishi Paper Mills Ltd, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----JP 07242055 A2 19950919 JP 1994-33696 19940303 PRIORITY APPLN. INFO.: JP 1994-33696 19940303

- The recording material comprises a support successively coated with an ink-absorbing layer contg. a quaternary ammonium base-contg. water-sol. polymer and an overcoat layer comprised of SiO2 fine particles covering 5-50% of the ink-absorbing layer and 10-150% (based on SiO2) of a water-insol. and alc.-sol. polymer with coating amt. 0.3 g/m2. The water-sol. polymer may be obtained from CH2:CR1COQ(CH2)nN+R2R3R4.X-, a styrene deriv. I, or CH2:CHCH2N+R2R3R4.X- (R1 = H, Me; R2-7 = Me, Et; R8-10 = Me, Et, allyl; Q = O, NH; X = halogen ion, sulfonic acid anion, alkylsulfonic acid anion, MeCO2-, alkylcarboxylic acid anion; n = 2, 3). The material showed good water resistance.
- ICM B41M005-00 TC

ICS D21H019-38; D21H019-44

- 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other CC Reprographic Processes) Section cross-reference(s): 42
- ΙT Polyamides, processes

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-jet printing sheet coated with silica-contg. water-insol. and alc.-sol. polymer overcoat layer with luster and good transparency)

IT26590-05-6, Acrylamide-diallyldimethylammonium chloride copolymer **73363-10-7** 75150-29-7 172785-52-3 172785-53-4 RL: DEV (Device component use); PEP (Physical, engineering or chemical (ink-absorbing layer; ink-jet printing sheet coated with silica-contg. water-insol. and alc.-sol. polymer overcoat layer with luster and good transparency)

TT 79-39-0D, Methacrylamide, polymers 88-12-0D, polymers 818-61-1D, 2-Hydroxyethyl acrylate, polymers 923-26-2D, 2-Hydroxypropyl methacrylate, polymers 924-42-5D, N-Methylolacrylamide, polymers 999-61-1D, 2-Hydroxypropyl acrylate, polymers 2210-25-5D, N-Isopropylacrylamide, polymers 2680-03-7D, N,N-Dimethylacrylamide, polymers 2873-97-4D, Diacetone acrylamide, polymers 9003-20-7, Poly(vinyl acetate) 9086-85-5, Poly(hydroxypropyl methacrylate) 25067-34-9, Ethylene-vinyl alcohol copolymer 25087-26-7, Poly(methacrylic acid) 25249-16-5 25897-89-6, Poly(diacetone acrylamide)

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-jet printing sheet coated with silica-contg. water-insol. and alc.-sol. polymer overcoat layer with luster and good transparency)

IT 73363-10-7

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-absorbing layer; ink-jet printing sheet coated with silica-contg. water-insol. and alc.-sol. polymer overcoat layer with luster and good transparency)

RN 73363-10-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 2

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

IT 2680-03-7D, N,N-Dimethylacrylamide, polymers

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(ink-jet printing sheet coated with silica-contg. water-insol. and alc.-sol. polymer overcoat layer with luster and good transparency)

RN 2680-03-7 HCAPLUS

CN 2-Propenamide, N, N-dimethyl- (9CI) (CA INDEX NAME)

0 || Me₂N-C-CH-CH₂

L47 ANSWER 36 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:750533 HCAPLUS

DOCUMENT NUMBER: 123:152978

TITLE: Antimicrobial polymer, contact lens, and contact lens

care products

INVENTOR(S): Hashimoto, Kazukichi; Inaba, Yoshiko; Shimura, Seiji;

Mogami, Takao; Kojima, Tadao; Ushiyama, Yoichi

PATENT ASSIGNEE(S): Nippon Chemical Industrial Co., Ltd., Japan; Seiko

Epson Corp.

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	7.1	10050106		10040712
WO 9502617	A1	19950126	WO 1994-JP1149	19940713
W: JP, US				
RW: DE, FR,	GB			
EP 663409	A1	19950719	EP 1994-921087	19940713
EP 663409	в1	19981007		
R: DE, FR,	GB			
US 5520910	Α	19960528	US 1995-397055	19950313
PRIORITY APPLN. INFO	.:		JP 1993-174238	19930714
			JP 1993-175288	19930715
			JP 1993-175289	19930715
			WO 1994-JP1149	19940713

- AB An antimicrobial polymer is prepd. by homo- or copolymg. a vinylphosphonium salt monomer such as 2-methacryloxyethyltri-n-octylphosphonium chloride. A contact lens and contact lens care products both based on an antimicrobial resin comprise a copolymer of a polymerizable monomer with a vinylphosphonium salt monomer. The antimicrobial polymer has a wide antimicrobial spectrum and a sufficient antimicrobial effect even with a short contact time. The lens and lens care products scarcely suffer from microbial contamination and are excellent in optical performance and processability.
- IC ICM C08F230-02

ICS C08F008-40; G02C007-02; A01N057-34

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 38

IT **2680-03-7P** 110769-39-6P 166740-87-0P 166740-88-1P

166740-89-2P 166740-91-6P 166740-92-7P 166740-93-8P 166740-95-0P 166740-97-2P 166740-98-3P 166740-99-4P 166741-00-0P 166741-01-1DP, reaction product with octylphosphine 167173-78-6P 167228-10-6P 167228-11-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); DEV (Device component use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Antimicrobial polymer, contact lens, and contact lens care products)

IT 2680-03-7P 167228-11-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); DEV (Device component use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Antimicrobial polymer, contact lens, and contact lens care products) 2680-03-7 HCAPLUS

CN 2-Propenamide, N, N-dimethyl- (9CI) (CA INDEX NAME)

RN

RN 167228-11-7 HCAPLUS

CN Phosphonium, [(3-ethenylphenyl)methyl]trioctyl-, chloride, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate), [(4-ethenylphenyl)methyl]trioctylphosphonium chloride, 2,2,3,3,4,4,4-heptafluorobutyl 2-methyl-2-propenoate and 3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 144705-73-7 CMF C33 H60 P . Cl

Me- (CH₂) 7
$$\rightarrow$$
 CH- CH₂

Me- (CH₂) 7 \rightarrow CH- CH₂

● cl-

CM 2

CRN 74443-79-1 CMF C33 H60 P . Cl

● cl-

CM 3

CRN 19309-90-1 CMF C14 H32 O4 Si3

CM

CRN 13695-31-3 CMF C8 H7 F7 O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{F}_3\text{C}-\text{CF}_2-\text{CF}_2-\text{CH}_2-\text{O} & \text{C}-\text{C}-\text{Me} \end{array}$$

CM 5

CRN 97-90-5 CMF C10 H14 O4

L47 ANSWER 37 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:726032 HCAPLUS

DOCUMENT NUMBER:

123:127770

TITLE:

Ink jet recording medium.

INVENTOR(S): Furukawa, Akira; Kato, Makoto

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

SOURCE: Eur. Pat. Appl., 28 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 627324	A1	19941207	EP 1994-108527	19940603
EP 627324	В1	19970102		
R: DE, FR,	GB			
JP 06340163	A2	19941213	JP 1993-133151	19930603
JP 06340164	A2	19941213	JP 1993-133152	19930603
US 5439739	Α	19950808	US 1994-251842	19940601
PRIORITY APPLN. INFO.	. :		JP 1993-133151	19930603
			JP 1993-133152	19930603

OTHER SOURCE(S): MARPAT 123:127770

AB An ink jet recording medium is obtained by coating a support with a mixt. of 100 parts by wt. of a H2O-sol. polymer and 0.1-30 parts by wt. of a crosslinking agent such as an epoxy or triazine crosslinking agent, the H2O-sol. polymer being obtained by copolymg. 10-50 parts by wt. of a quaternary salt monomer selected from trimethyl-3-(acryloylamino)-propylammonium chloride, trimethyl-2-(methacryloyloxy)ethylammonium chloride, etc., 1-30 parts by wt. of an amino group-contg. monomer selected from diemthylaminopropylacrylamide, dimethylaminoethyl methacrylate, etc. or a carboxyl group-contg. monomer selected from acrylic acid, methacrylic acid, etc. and 20-80 wt. parts of a monomer selected from acrylamide, 2-hydroxyethyl (meth) acrylate, N-vinylpyrrolidone, etc. The medium is capable of providing recorded images of excellent H2O resistance.

IC ICM B41M005-00

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

166241-13-0 166241-14-1 166241-15-2

Section cross-reference(s): 35

TT 166032-04-8 166032-05-9 166032-06-0 166032-07-1 166032-08-2 166032-09-3 166032-10-6 166032-11-7 166032-12-8 166032-13-9 166032-14-0 166032-15-1 166032-16-2 166032-17-3 166032-18-4 166032-19-5 166032-20-8 166032-21-9 166032-22-0 166032-23-1 166032-24-2 166240-97-7 166240-98-8 166241-03-8 166241-00-5 166241-01-6 166241-06-1 166241-08-3 166241-09-4 166241-10-7 166241-11-8

166241-12-9 166241-13-166241-16-3 166241-17-4

RL: DEV (Device component use); USES (Uses)

(coating for ink jet printing medium)

IT 166241-07-2

RL: DEV (Device component use); USES (Uses) (sto coating for ink jet printing medium)

IT 166032-06-0 166032-11-7 166032-14-0 166032-17-3 166032-21-9 166032-22-0 166032-23-1 166032-24-2 166240-99-9

166032-23-1 166032-24-2 166240-99-9

166241-04-9 166241-10-7 166241-14-1

166241-15-2 166241-16-3 166241-17-4

RL: DEV (Device component use); USES (Uses) (coating for ink jet printing medium)

RN 166032-06-0 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N-[3-(dimethylamino)propyl]-2-propenamide and N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

● cl-

CM 2

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2\text{N-} \text{(CH}_2)_3 - \text{NH-C-CH} \end{array}$$

CM 3

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

Na

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N--C-CH-----} \text{CH}_2 \end{array}$$

RN 166032-11-7 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, 2-(dimethylamino)ethyl 2-methyl-2-propenoate and N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 69174-85-2 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & || & || \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} - \text{C} - \text{Me} \end{array}$$

● Cl-

CM 2

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{O}-\text{C}-\text{C}-\text{Me} \end{array}$$

CM 3

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

Na

CM 4

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \end{array} \text{CH}_2$$

RN 166032-14-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide and ar-ethenyl-N,N-diethylbenzenemethanamine (9CI) (CA INDEX NAME)

CM 1

CRN 30179-69-2 CMF C13 H19 N CCI IDS



D1-CH=CH2

 $\text{Et}_2\text{N}-\text{CH}_2-\text{D1}$

CM 2

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● Cl-

CM 3

CRN 2873-97-4 CMF C9 H15 N O2

$$\begin{array}{c} \text{O} & \\ || \\ \text{H}_2 \text{C} = \text{CH} - \text{C} - \text{NH} & \text{O} \\ | & || \\ \text{Me} - \text{C} - \text{CH}_2 - \text{C} - \text{Me} \\ | \\ \text{Me} \end{array}$$

CM 4

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

Na

RN 166032-17-3 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N,N-dimethyl-2-propenamide and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$^{\circ}_{\parallel}$$
 Me₃+N- (CH₂)₃-NH-C-CH=-CH₂

• cl-

CM 2

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

Na

CM 3

CRN 2680-03-7 CMF C5 H9 N O

CM 4

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2 \text{H} \end{array}$$

RN 166032-21-9 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N,N-dimethyl-2-propenamide and 2-methyl-2-propenoic acid (9CI) (CA INDEX

NAME)

CM 1

CRN 69174-85-2 CMF C9 H19 N2 O . C1

• c1-

CM 2

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

O N C1

Na

CM 3

CRN 2680-03-7 CMF C5 H9 N O

 $\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH} \longrightarrow \text{CH}_2 \end{array}$

CM 4

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me} - \text{C} - \text{CO}_2 \text{H} \end{array}$$

RN 166032-22-0 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, N,N-dimethyl-2-propenamide and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 69174-85-2 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{Me}_3 ^+ \text{N} - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} - \text{C} - \text{Me} \end{array}$$

● c1-

CM 2

CRN 2873-97-4 CMF C9 H15 N O2

CM 3

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

Na

CM 4

CRN 2680-03-7 CMF C5 H9 N O

CM 5

CRN 79-41-4 CMF C4 H6 O2

RN 166032-23-1 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N,N-dimethyl-2-propenamide, 2-methyl-2-propenoic acid and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8 CMF C8 H16 N . Cl

$$_{\rm H_2C}^{\rm Me} = _{\rm CH-CH_2-N^+-CH_2-CH}^{\rm Me} = _{\rm CH_2}^{\rm CH-CH_2-CH_2-CH_2}$$

● c1-

$$\begin{array}{c} \text{Me} \\ \downarrow \\ \text{H}_2\text{C} = \text{CH} - \text{CH}_2 - \text{N} \\ \downarrow \\ \text{Me} \end{array} \text{CH}_2 - \text{CH} = \text{CH}_2$$

● Cl-

CM 2

CRN 2736-18-7 CMF C3 H Cl2 N3 O . Na

Na

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \longrightarrow \text{CH}_2 \end{array}$$

CM 4

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2 \text{H} \end{array}$$

CM 5

CRN 79-06-1 CMF C3 H5 N O

RN 166032-24-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 4,6-dichloro-1,3,5-triazin-2(1H)-one sodium salt, N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenate and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● cl-

CM 2

CRN 2736-18-7 CMF C3 H C12 N3 O . Na

Na

CM 3

CRN 2680-03-7 CMF C5 H9 N O

CRN 868-77-9 CMF C6 H10 O3

CM 5

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2 \text{H} \end{array}$$

RN 166240-99-9 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-propenamide, N,N-dimethyl-2-propenamide and 1,2,3-propanetriol homopolymer oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . C1

$$\begin{array}{c} & \circ \\ | | \\ \text{Me}_3 + \text{N} - (\text{CH}_2)_3 - \text{NH} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$$

● c1-

CM 2

CRN 3845-76-9 CMF C8 H16 N2 O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-(CH}_2)_3 - \text{NH-C-CH} \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

CM 4

CRN 118549-88-5 CMF (C3 H8 O3)x . x C3 H6 O2

CM 5

CRN 556-52-5 CMF C3 H6 O2

CM 6

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CM 7

CRN 56-81-5 CMF C3 H8 O3

RN 166241-04-9 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)amino]-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and 1,2,3-propanetriol homopolymer

oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 69174-85-2 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel & \parallel \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} - \text{C} - \text{Me} \end{array}$$

● Cl-

CM 2

CRN 2867-47-2 CMF C8 H15 N O2

$$\begin{array}{c} \text{O} \quad \text{CH}_2 \\ \parallel \quad \parallel \\ \text{Me}_2 \text{N} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} - \text{C} - \text{Me} \end{array}$$

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CM 4

CRN 118549-88-5 CMF (C3 H8 O3)x . x C3 H6 O2

CM 5

CRN 556-52-5 CMF C3 H6 O2

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CRN 25618-55-7 CMF (C3 H8 O3)x

CCI PMS

> CM 7

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{--CH--CH}_2\text{--OH} \end{array}$$

166241-10-7 HCAPLUS RN

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxo-2-propenyl)amino]-, chloride, polymer with N,N-dimethyl-2-propenamide, 2-methyl-2-propenoic acid and 1,2,3-propanetriol homopolymer oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 45021-77-0 CMF C9 H19 N2 O . Cl

$$Me_3+N-(CH_2)_3-NH-C-CH=CH_2$$

CM2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} - - \text{CH}_2 \end{array}$$

CM3

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2\text{H} \end{array}$$

CRN 118549-88-5 CMF (C3 H8 O3)x . x C3 H6 O2

CM 5

CRN 556-52-5 CMF C3 H6 O2

CM 6

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CM 7

CRN 56-81-5 CMF C3 H8 O3

RN 166241-14-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with N,N-dimethyl-2-propenamide, 2-methyl-2-propenoic acid and 1,2,3-propanetriol homopolymer oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 69174-85-2 CMF C9 H19 N2 O . C1

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel & \parallel \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} - \text{C} - \text{Me} \end{array}$$

● c1-

CM 2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-- C-- CH----- CH} \end{array}$$

CM 3

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me} \quad \text{C---} \text{CO}_2\text{H} \end{array}$$

CM 4

CRN 118549-88-5 CMF (C3 H8 O3)x . x C3 H6 O2

CM 5

CRN 556-52-5 CMF C3 H6 O2

CM 6

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{-CH-CH}_2\text{-OH} \end{array}$$

RN 166241-15-2 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, N,N-dimethyl-2-propenamide, 2-methyl-2-propenoic acid and 1,2,3-propanetriol homopolymer oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 69174-85-2 CMF C9 H19 N2 O . Cl

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ || & || \\ \text{Me}_3 + \text{N} - \text{CH}_2 - \text{CH}_2 - \text{NH} - \text{C} - \text{C} - \text{Me} \end{array}$$

● cl-

CM 2

CRN 2873-97-4 CMF C9 H15 N O2

$$\begin{array}{c} \text{O} & \\ || \\ \text{H}_2 \text{C} = -\text{CH} - \text{C} - \text{NH} & \text{O} \\ & & || \\ \text{Me} - \text{C} - \text{CH}_2 - \text{C} - \text{Me} \\ & | \\ \text{Me} \end{array}$$

CM 3

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} \underline{\hspace{1cm}} \text{CH}_2 \end{array}$$

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-C-CO}_2\text{H} \end{array}$$

CM 5

CRN 118549-88-5 CMF (C3 H8 O3)x . x C3 H6 O2

CM 6

CRN 556-52-5 CMF C3 H6 O2

CM 7

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CM 8

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{--CH-CH}_2\text{--OH} \end{array}$$

RN 166241-16-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, polymer with N,N-dimethyl-2-propenamide, 2-methyl-2-propenoic acid, 1,2,3-propanetriol homopolymer oxiranylmethyl ether and 2-propenamide (9CI) (CA INDEX NAME)

CRN 7398-69-8 CMF C8 H16 N . Cl

$$\begin{array}{c} \text{Me} \\ | \\ | \\ + \\ \text{CH}_2\text{C} = \text{CH}_2\text{-CH}_2 - \text{CH}_2 - \text{CH}_2 \\ | \\ \text{Me} \end{array}$$

● cl-

CM 2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$$

CM 3

CRN 79-41-4 CMF C4 H6 O2

$$\begin{array}{c} \text{CH}_2 \\ || \\ \text{Me-} \text{C--} \text{CO}_2 \text{H} \end{array}$$

CM 4

CRN 79-06-1 CMF C3 H5 N O

$$\begin{matrix} \text{O} \\ || \\ \text{H}_2\text{N}-\text{C}-\text{CH} \Longrightarrow \text{CH}_2 \end{matrix}$$

CM 5

CRN 118549-88-5

CMF (C3 H8 O3)x . x C3 H6 O2

CM 6

CRN 556-52-5 CMF C3 H6 O2

CM 7

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CM 8

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{--CH-CH}_2\text{--OH} \end{array}$$

RN 166241-17-4 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid and 1,2,3-propanetriol homopolymer oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3+N-CH_2$$
 $CH=CH_2$

● C1-

CM 2

CRN 2680-03-7 CMF C5 H9 N O

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N-C-CH-} \text{CH}_2 \end{array}$$

CM 3

CRN 868-77-9 CMF C6 H10 O3

CM 4

CRN 79-41-4 CMF C4 H6 O2

CM 5

CRN 118549-88-5 CMF (C3 H8 O3)x . x C3 H6 O2

CM 6

CRN 556-52-5 CMF C3 H6 O2

CM 7

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{-CH-CH}_2\text{-OH} \end{array}$$

IT 166241-07-2

RL: DEV (Device component use); USES (Uses) (sto coating for ink jet printing medium)

RN 166241-07-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, ar-ethenyl-N,N-diethylbenzenemethanamine and 1,2,3-propanetriol homopolymer oxiranylmethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 30179-69-2 CMF C13 H19 N CCI IDS



 $D1-CH=CH_2$

 Et_2N-CH_2-D1

CM 2

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3+N-CH_2$$
 $CH=CH_2$

● c1-

CRN 2873-97-4 CMF C9 H15 N O2

CM 4

CRN 118549-88-5 CMF (C3 H8 O3) \times . \times C3 H6 O2

CM 5

CRN 556-52-5 CMF C3 H6 O2

CM 6

CRN 25618-55-7 CMF (C3 H8 O3)x CCI PMS

CM 7

CRN 56-81-5 CMF C3 H8 O3

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{--CH---CH}_2\text{--OH} \end{array}$$

L47 ANSWER 38 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:382840 HCAPLUS 122:142666

DOCUMENT NUMBER: TITLE:

antimicrobial hydrogel and its use in

manufacturing antimicrobial soft contact lenses

Matsuzawa, Hiroshi; Iwamoto, Eiju

INVENTOR(S):

```
PATENT ASSIGNEE(S):
                        Hoya Corp, Japan
SOURCE:
                         Jpn. Kokai Tokkyo Koho, 6 pp.
                        CODEN: JKXXAF
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO. KIND DATE
                                    APPLICATION NO. DATE
                     A2 19941206 JP 1995 12 JP 1993-129308
     ______
     JP 06337378
                                         JP 1993-129308 19930531
PRIORITY APPLN. INFO.:
                                                          19930531
    Antimicrobial hydrogel is prepd. with 2-hydroxyethyl
    methacrylate and p-vinylbenzyldimethyloctylammonium chloride or
     2-methacryloxyethyldimethyloctylammonium chloride and the corresponding
     hexadecyl analogs and is used in manufq. antimicrobial soft contact
     lenses. The lenses showed excellent oxygen permeability and
    biocompatibility.
IC
    ICM G02C007-04
ICS A61L027-00; C08F212-14; C08F220-28; C08F220-34
CC
     63-7 (Pharmaceuticals)
     Section cross-reference(s): 38
ST
     antimicrobial hydrogel soft contact lens
     Bactericides, Disinfectants, and Antiseptics
ΤТ
        (prepn. of antimicrobial hydrogel and its use in manufg.
        antimicrobial soft contact lenses)
IT
    Lenses
        (contact, soft, prepn. of antimicrobial hydrogel and its use
        in manufg. antimicrobial soft contact lenses)
IT
     RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (hydro-, prepn. of antimicrobial hydrogel and its
        use in manufg. antimicrobial soft contact lenses)
     1592-20-7, p-Vinylbenzyl chloride
ΙT
                                       7378-99-6, Dimethyl-n-octylamine
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (prepn. of antimicrobial hydrogel and its use in manufg.
        antimicrobial soft contact lenses)
TΨ
     98473-87-1P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of antimicrobial hydrogel and its use in manufg.
        antimicrobial soft contact lenses)
ΙT
     868-77-9DP, copolymers 161233-91-6P 161233-93-8P
     161233-94-9P
                  161233-96-1P
     RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (prepn. of antimicrobial hydrogel and its use in manufg.
        antimicrobial soft contact lenses)
IΤ
     98473-87-1P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of antimicrobial hydrogel and its use in manufg.
        antimicrobial soft contact lenses)
RN
     98473-87-1 HCAPLUS
CN
     Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-octyl-, chloride (9CI)
     INDEX NAME)
```

$$\begin{array}{c} \text{Me} \\ \text{Me} - (\text{CH}_2) \, 7 - \overset{+}{\text{N}} - \text{CH}_2 \\ \text{Me} \\ \end{array}$$

● c1-

IT 161233-91-6P 161233-94-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of antimicrobial hydrogel and its use in manufg.

antimicrobial soft contact lenses)

RN 161233-91-6 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-octyl-, chloride, polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9 CMF C6 H10 O3

CM 2

CRN 98473-88-2

CMF (C19 H32 N . C1) \times

CCI PMS

CM 3

CRN 98473-87-1

CMF C19 H32 N . C1

● cl-

RN 161233-94-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-hexadecyl-N,N-dimethyl-, chloride, polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9 CMF C6 H10 O3

CM 2

CRN 87833-72-5

CMF (C27 H48 N . C1) \times

CCI PMS

CM 3

CRN 87810-16-0 CMF C27 H48 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Me} - (\text{CH}_2)_{15} - \text{N} + \text{CH}_2 \\ \text{Me} \end{array}$$

● c1-

L47 ANSWER 39 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1993:577150 HCAPLUS

```
DOCUMENT NUMBER:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PATENT INFORMATION:
```

119:177150

Polyvinylbenzyl ammonium or sulfonium or phosphonium

polymer-based membrane for chemiluminescent

blotting applications

Bronstein, Irena; Edwards, Brooks; Voyta, John

Tropix, Inc., USA

PCT Int. Appl., 30 pp.

CODEN: PIXXD2

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT NO.		KI	ND	DATE					CATI		0.	DATE							
	WO	9313	3405		A	1	1993	0708						03	1992	1218			
															MG,			NO,	
				•	•	•	SD,												
		RW:													MC,	NL,	PT,	SE,	
							CI,												۷
	US	5336	5596 x	<u>_</u>	Α		1994	0809		U	S 19	91-8	1162	0	1991	1223			
	AU	9332	2792 `	•	A	1	1993	0728		А	U 19	93-3	2792		1991 1992	1218			
			509																
	EP	6190	018		A	1	1994	1012		Ε	P 19	93-9	0131	8	1992	1218			
	EP	6190	018		В	1	1998	1125											
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	IT,	LI,	LU,	MC,	NL,	PT,	SE
	AT	1738	321		E		1998	1215		Ā	т 19	93-9	0131	8	1992	1218			
	ES	2124	1781		T	3	1999	0216		E	s 19	93-9	0131	8	1992	1218			
	US	5593	3828		Α		1997	0114		U	s 19	94-2	3385	0	1994	0426			
		9403													1994				
	NO	9402													1994				
		5827													1996				
Р	RIORIT														1991				
_															1992				
															1994				
																	_		

A membrane comprising a support (e.g. nitrocellulose, PVDF, or nylon) AΒ coated with a polyvinylbenzyl quaternary salt (e.g. sulfonium, phosphonium, or ammonium) polymer is used for blotting assays having reduced background noise and improved sensitivity and reliability. The blotting assay uses enzyme-labeled antibody or nucleic acid probe and enzyme-cleavable 1,2-dioxetane (e.g. AMPPD or CSPD) for analyte detn. Thus, nitrocellulose or PVDF or nylon coated with polyvinylbenzylphenylureidoethyldimethyl ammonium chloride/polyvinylbenzylbenzoylaminoethyldimethylammonium chloride copolymer and alk. phosphatase-labeled anti-mouse IgG antibody were used in a Western blotting anal.

IC B23B027-30; B23B023-08

ICM G01N021-76

ICS G01N033-544

9-10 (Biochemical Methods) CC Section cross-reference(s): 3

ITImmunoassay

(chemiluminescence, immunoblotting, polyvinylbenzyl quaternary salt polymer-coated support for)

88353-58-6 114783-41-4 150042-57-2 IT 150042-59-4 150042-60-7 150042-61-8 150042-63-0 150042-64-1



RL: ANST (Analytical study)

(support coated with, for blotting anal.)

IT 88353-58-6 114783-41-4 150042-57-2

150042-59-4 150042-60-7 150042-61-8

150042-63-0 150042-64-1

RL: ANST (Analytical study)

(support coated with, for blotting anal.)

RN 88353-58-6 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 61735-87-3 CMF C13 H20 N O . Cl

$$\begin{array}{c} \text{Me} \\ \text{HO-CH}_2\text{-CH}_2\text{-N} \xrightarrow{+} \text{CH}_2 \\ \text{Me} \end{array}$$

● Cl-

RN 114783-41-4 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 66099-76-1 CMF C18 H22 N . C1

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Ph-CH}_2 - \text{N} \\ | \\ | \\ \text{Me} \end{array} \\ \text{CH-CH}_2$$

• cl-

RN 150042-57-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-[2-[[(phenylamino)carbonyl]amino]ethyl]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CRN 150042-56-1 CMF C20 H26 N3 O . Cl

$$\begin{array}{c|c} O & Me \\ \parallel & \downarrow \\ PhNH-C-NH-CH_2-CH_2-N-CH_2 \\ Me \\ \hline \\ CH=CH_2 \\ \end{array}$$

● cl-

RN 150042-59-4 HCAPLUS

CN Benzenemethanaminium, N-[2-(benzoylamino)ethyl]-4-ethenyl-N,N-dimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 150042-58-3 CMF C20 H25 N2 O . Cl

$$\begin{array}{c} \text{O} & \text{Me} \\ \| \\ \text{Ph-C-NH-CH}_2 - \text{CH}_2 - \text{N} \stackrel{+}{\longrightarrow} \text{CH}_2 \\ \\ \text{Me} & \\ \end{array}$$

● Cl-

RN 150042-60-7 HCAPLUS

CN Benzenemethanaminium, N,N,N-tributyl-4-ethenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56343-19-2 CMF C21 H36 N . Cl

$$(n-Bu)$$
 3+N-CH₂ $CH=CH_2$

● C1-

RN 150042-61-8 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trihexyl-, chloride, polymer with N,N,N-tributyl-4-ethenylbenzenemethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 56343-19-2 CMF C21 H36 N . Cl

$$(n-Bu)3+N-CH_2$$
 $CH=CH_2$

• c1-

CM 2

CRN 56343-11-4 CMF C27 H48 N . Cl

$$Me = (CH_2) 5$$
 $Me = (CH_2) 5 - N + CH_2$
 $Me = (CH_2) 5$
 $Me = (CH_2) 5$
 $CH = CH_2$

● c1-

RN 150042-63-0 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)-, chloride, polymer with N-(2-aminoethyl)-N,N-dimethylethenaminium chloride (9CI) (CA INDEX NAME)

CRN 150042-62-9 CMF C6 H15 N2 . Cl

$$\begin{array}{c|c} \text{Me} \\ & + \\ \text{H}_2\text{C} = \text{CH} - \text{N} + \\ & + \\ \text{Me} \end{array}$$

• cl-

CM 2

CRN 66099-76-1 CMF C18 H22 N . Cl

$$\begin{array}{c} \text{Me} \\ \downarrow \\ \text{Ph-CH}_2 - N \xrightarrow{+} \text{CH}_2 \\ \downarrow \\ \text{Me} \end{array}$$

● cl-

RN 150042-64-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N-dimethyl-N-[2-[[(phenylamino)carbonyl]amino]ethyl]-, chloride, polymer with 4-ethenyl-N,N-dimethyl-N-(phenylmethyl)benzenemethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 150042-56-1 CMF C20 H26 N3 O . Cl

● c1-

CM 2

CRN 66099-76-1 CMF C18 H22 N . C1

$$\begin{array}{c} \text{Me} \\ \text{Ph-CH}_2 - \text{N} + \text{CH}_2 \\ \text{Me} \end{array}$$

● c1-

L47 ANSWER 40 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:436233 HCAPLUS

DOCUMENT NUMBER: 119:36233

TITLE: Electrochemical characterization of size-quantized

semiconductor particulate films at monolayer

interfaces

AUTHOR(S): Fendler, Janos H.

CORPORATE SOURCE: Dep. Chem., Syracuse Univ., Syracuse, NY, 13244-4100,

USA

SOURCE: Electrochem. Colloids Dispersions, [Symp. Electrochem.

Microheterog. Fluids] (1992), 475-87. Editor(s):

Mackay, Raymond A.; Texter, John. VCH: New York, N.Y.

CODEN: 58XTAL

DOCUMENT TYPE: Conference

LANGUAGE: English

AB Semiconductor particulate films, prepd. at neg. charged monolayer interfaces and transferred to **solid supports**, were characterized by reflectivity, absorption spectrophotometry, TEM, scanning tunneling microscopy, and elec. measurements. Plots of absorbances at a given wavelength against thickness were linear for CdS and ZnS particulate films. Direct band gaps for 63, 125, 163, 204, 263, and 298 .ANG. thick, CdS particulate films were found, resp., to be 2.54, 2.48, 2.46, 2.44,

2.43, and 2.42 eV. Similarly, a direct band gap of 3.75 eV was assessed for a 458. .ANG. thick ZnS particulate film. Transmission electron micrographs of CdS films revealed CdS particles in a narrow size distribution with av. diams. of 47 .ANG.. The presence of 20-30 .ANG. thick, 40-50 .ANG. diam. CdS and 10-25 .ANG. thick, 30-40 .ANG. diam. ZnS particles in CdS and ZnS films were discerned by scanning tunneling microscopy. CdS films had dark resistivities of (3 .times. 107)(6 .times. 107) .OMEGA. cm, which decreased upon illumination; they also developed photovoltages upon illumination. Cd sulfide particulate films, generated at arachidic acid monolayer interfactes to 300 .+-. 50 .ANG. thickness, were characterized in situ by scanning tunneling microscopy (STM) under potentiostatic control. Elec. contact was made between the tip of the scanning tunneling microscope, acting as the working electrode (WE) in contact with the CdS particulate film floating on aq. 0.30M NaCl, and the ref. (RE) and counter (CE) electrodes, placed in the subphase. A well-defined single-redn. wave at .apprx.-1.15 V was obsd. Prolonged exposure to room light shifted the redn. peak to -0.85 V.

CC 72-2 (Electrochemistry)

Section cross-reference(s): 65, 66, 76

IT Surface structure

(of semiconductor particulate films on ${\tt solid}$ support

IT 76901-54-7, PSP (polymer) 96478-22-7

RL: PRP (Properties)

(in semiconductor particulate film prepn.)

IT 96478-22-7

RL: PRP (Properties)

(in semiconductor particulate film prepn.)

RN 96478-22-7 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N-methyl-N, N-bis[2-[(1-oxohexadecyl)oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

● cl-

L47 ANSWER 41 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:18077 HCAPLUS

DOCUMENT NUMBER: 116:18077

TITLE: Apparatus and method using amine polymers as

coagulator accelerators in blood phase separation

INVENTOR(S): Corin, Alan Franklin; Columbus, Richard Lewis;

Freyler, Deborah Paula

PATENT ASSIGNEE(S): Eastman Kodak Co., USA

SOURCE: Eur. Pat. Appl., 34 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ _____ A1 19910724 EP 438192 EP 1991-200040 19910110 R: BE, CH, DE, FR, GB, IT, LI, LU, NL AA 19910717 CA 1990-2032816 19901220 CA 2032816 JP 06249849 A2 19940909 JP 1991-2741 19910114 PRIORITY APPLN. INFO.: US 1990-465835 19900116

AB An app. and a method are described, wherein a coagulator accelerator is added to a container to achieve agglutination of blood cells when centrifuging whole blood, allowing the serum to be more easily poured off. The accelerator is selected from polymeric amines that are either polymd. amino acids or vinyl addn. polymer amines, with a specified mol. wt. range, the vinyl addn. amines being selected to avoid lysing the blood cells. Prepn. of poly(2-aminoethyl methacrylate.HCl) (I) is described. I at 0.92 mg/mL gave a preferred amt. of agglutination (the clump stayed together even when the container was inverted) and the sepd. serum remained clear.

IC ICM G01N033-48

ICA B01D043-00

CC 9-6 (Biochemical Methods)
Section cross-reference(s): 35

IT Polyamides, biological studies

RL: BIOL (Biological study)

(poly(amino acids), as blood-coagulation accelerators for blood sepn.)

IT 25104-18-1, Polylysine 64080-86-0 64696-45-3 **67252-58-8** 82752-13-4 94901-16-3 125635-53-2 137843-13-1 137843-14-2 137843-15-3 137843-17-5

RL: BIOL (Biological study)

(blood-coagulation accelerator for blood sepn.)

IT 67252-58-8

RL: BIOL (Biological study)

(blood-coagulation accelerator for blood sepn.)

RN 67252-58-8 HCAPLUS

CN Benzenemethanaminium, N-cyclohexyl-4-ethenyl-N,N-dimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 67252-57-7 CMF C17 H26 N . Cl

● c1-

$$\begin{array}{c|c} \text{Me} \\ \hline & \\ \text{N} \\ \text{Me} \end{array}$$

● cl-

L47 ANSWER 42 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:597553 HCAPLUS

DOCUMENT NUMBER:

113:197553

TITLE:

Ionic complex for enhancing performance of water

desalination membranes

INVENTOR(S):

Wessling, Ritchie A.; Whipple, Sharon S.; Fibiger,

Richard F.

PATENT ASSIGNEE(S):

Dow Chemical Co., USA

SOURCE:

U.S., 9 pp. Cont. of U.S. Ser. No. 903,640, abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4927540	A	19900522	US 1988-185323	19880419
PRIORITY APPLN. INFO.	:	US	1986-903640	19860904

OTHER SOURCE(S): MARPAT 113:197553

AB A reverse osmosis membrane for enhanced salt rejection in desalination comprises a semipermeable reverse osmosis membrane having a 1st discriminating layer as a supporting surface and, affixed to the supporting surface, a 2nd thin film layer comprising an ionic complex of a 1st compd. bearing .gtoreq.1 quaternary ammonium, imidazolinium, or pyridinium group and a 2nd compd. bearing .gtoreq.1 carboxylate, phosphonate, or sulfonate group, where .gtoreq.1 of the 1st and 2nd compds. is a polymer or prepolymer and also bears an av. of >1 ionic groups/mol. A membrane of the invention is an asym. cellulose triacetate reverse osmosis membrane treated 1st with crotonic acid-vinyl acetate copolymer and 2nd with 3-(trimethoxysilyl)propyloctadecyldimethyl ammonium chloride.

IC ICM B01D013-00

ICS B01D013-01

NCL 210638000

CC 61-4 (Water)

Section cross-reference(s): 37

IT Polyamides, uses and miscellaneous

RL: DEV (Device component use); USES (Uses) (composite membrane from, for reverse osmosis,

(composite membrane from, for reverse osmosis, for enhanced desalination)

IT 123-03-5, Cetyl pyridinium chloride 1652-63-7, FC 135 9004-35-7, Cellulose acetate 9012-09-3, Cellulose triacetate 9035-69-2, Cellulose diacetate 25609-89-6, Crotonic acid-vinyl acetate copolymer

27029-33-0, Maleamic acid-styrene copolymer 31693-08-0 50658-75-8

83044-99-9, m-Phenylenediamine-trimesoyl chloride copolymer

130171-49-2 130171-50-5 87833-71-4

RL: DEV (Device component use); USES (Uses)

(composite membrane from, for reverse osmosis, for enhanced

desalination)

IT87833-71-4

RL: DEV (Device component use); USES (Uses)

(composite membrane from, for reverse osmosis, for enhanced

desalination)

RN 87833-71-4 HCAPLUS

CN Benzenemethanaminium, N-dodecyl-4-ethenyl-N, N-dimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM1

CRN 56307-84-7 CMF C23 H40 N . Cl

$$\begin{array}{c} \text{Me} \\ | \\ | \\ \text{Me} \end{array} \begin{array}{c} \text{CH}_2 \\ | \\ \text{Me} \end{array}$$

● cl-

L47 ANSWER 43 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1989:116214 HCAPLUS

DOCUMENT NUMBER:

110:116214

TITLE: INVENTOR(S): Novel polyamide reverse-osmosis composite membranes Fibiger, Richard F.; Koo, Ja Young; Forgach, David J.;

Petersen, Robert J.; Schmidt, Donald L.; Wessling,

Ritchie A.; Stocker, Thomas F.

PATENT ASSIGNEE(S):

Dow Chemical Co., USA

SOURCE:

U.S., 10 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4769148	Α	19880906	US 1987-122307	19871118
US 4859384				
	A	19890822		19880613
EP 316525	A2	19890524	EP 1988-113868	19880825
EP 316525	A3	19900516		
EP 316525	B1	19921202		
R: BE, DE,	FR, GB	, IT, NL		

```
CA 1333462
                      A1
                           19941213
                                         CA 1988-576135
                                                          19880831
     AU 8821768
                      A1
                           19890518
                                         AU 1988-21768
                                                          19880901
     AU 611474
                      B2
                          19910613
    NO 8803948
                      Α
                           19890519
                                         NO 1988-3948
                                                          19880905
     NO 172030
                     В
                          19930222
    NO 172030
                     С
                           19930602
    DK 8804958
                     Α
                          19890519
                                         DK 1988-4958
                                                          19880906
     DK 174264
                     B1 20021028
     BR 8804600
                    A
                          19890523
                                         BR 1988-4600
                                                          19880906
     JP 01130707
                     A2 19890523
                                         JP 1988-221503
                                                          19880906
     JP 2727087
                     B2 19980311
     CN 1033187
                          19890531
                                         CN 1988-106576
                     A
                                                          19880906
     CN 1023866
                     В
                           19940223
     ZA 8806618
                      Α
                           19900530
                                         ZA 1988-6618
                                                          19880906
PRIORITY APPLN. INFO.:
                                      US 1987-122307 A3 19871118
    Title membranes comprise a microporous support and a polyamide
    discriminating layer derived from reaction of polyamines [e.g.,
     (substituted) piperazines, piperidines, and cyclohexanes bearing .gtoreq.2
     amine groups], and arom. or cycloaliph. acyl halides in the presence of an
     ionic polymeric wetting agent bearing onium groups. Thus, a 6-mil Udel P
     3500 film was immersed 1-2 min in an aq. soln. contg. 4% piperazine, 4%
    Et3N, and 2000 ppm wetting agent of hydroxyethyl methacrylate-p-
    nonylphenoxynonaethoxyethyl methacrylate-vinylbenzyldimethylsulfonium
    chloride copolymer, and then a soln. of 0.1% trimesoyl chloride in
    CC12FCC1F2 to give a membrane showing water flux at 25.degree. 23
    gal/ft2/day, and MgSO4 rejection 92%.
IC
    ICM B01D013-00
NCL 210500380
CC
    38-3 (Plastics Fabrication and Uses)
IT
    Polyamides, uses and miscellaneous
    RL: USES (Uses)
        (composite membranes, reverse-osmosis, with polysulfone)
    59821-61-3 59821-62-4 79122-60-4 86713-73-7 86713-77-1
IT
    86713-85-1 90802-89-4 119408-98-9 119408-99-0 119409-00-6
    119409-01-7 119409-02-8
                               119409-03-9 119409-04-0 119409-05-1
    119565-61-6 119592-91-5
    RL: USES (Uses)
        (composite membranes, reverse-osmosis, with polysulfone)
TТ
    9017-80-5, Poly(vinylbenzyltrimethylammonium chloride) 9074-69-5
    90216-73-2
                 111570-13-9 111570-14-0
                                           114355-33-8, Fibrabon 35
    119432-34-7
                              119432-36-9 119432-37-0
                  119432-35-8
    119432-38-1
    RL: USES (Uses)
        (wetting agents, in manuf. of polyamides for reverse-osmosis composite
       membranes)
IT
    86713-73-7
    RL: USES (Uses)
        (composite membranes, reverse-osmosis, with polysulfone)
RN
    86713-73-7 HCAPLUS
    1,3,5-Benzenetricarbonyl trichloride, polymer with 1,2-ethanediamine (9CI)
CN
      (CA INDEX NAME)
    CM
         1
    CRN 4422-95-1
    CMF C9 H3 C13 O3
```

CRN 107-15-3 CMF C2 H8 N2

 $H_2N-CH_2-CH_2-NH_2$

IT 119432-37-0

RL: USES (Uses)

(wetting agents, in manuf. of polyamides for reverse-osmosis composite membranes)

RN 119432-37-0 HCAPLUS

CN Benzenemethanaminium, N-dodecyl-4-ethenyl-N,N-dimethyl-, chloride, polymer with 4-ethenyl-N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]benzenemethanaminium chloride, [(ethenylphenyl)methyl]dimethylsulfonium chloride and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 111590-82-0 CMF C17 H24 N O2 . C1

● Cl-

CM 2

CRN 56307-84-7

CMF C23 H40 N . Cl

$$\begin{array}{c} \text{Me} \\ \text{Me}-\text{(CH2)}_{11}-\text{N} \\ \text{N} \\ \text{Me} \end{array}$$

● c1-

CM 3

CRN 29562-34-3 CMF C11 H15 S . C1 CCI IDS

$$D1-CH=CH_2$$

$$\begin{array}{c} \text{Me} \\ | \\ \text{Me} - \text{S} \xrightarrow{+} \text{CH}_2 - \text{D1} \end{array}$$

• cl-

CM 4

CRN 80-62-6 CMF C5 H8 O2

L47 ANSWER 44 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:155971 HCAPLUS

DOCUMENT NUMBER: 104:155971

TITLE: Preparation of microcapsules containing

physiologically active substances such as hemoglobins

and enzymes

PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60110330	A2	19850615	JP 1983-217375	19831118
JP 62048533	В4	19871014		

PRIORITY APPLN. INFO.: JP 1983-217375 19831118

AB Microcapsules contg. physiol. active substances such as Hb and enzymes are prepd. using hydrogel membranes of ion-pair complexes. The capsule membranes prevent the degrdn. of the physiol. active substances. Thus, 0.8 parts (by vol.) aq. soln. contg. 1% Hb and 1% poly[N,N,N-trimethyl-N-(4-vinylbenzyl)ammonium chloride] was added to 1.0 part (by vol.) AcOEt contg. poly(4-vinylphenol). This emulsion was added to 10 parts 2% gelatin soln. The pH was adjusted to 5.0 with 0.1N HCl until the odor of AcOEt disappeared. The pH was then increased to 10.0 with 0.1N NaOH. Capsules produced were isolated by centrifugation.

IC ICM B01J013-02

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 7

ST microcapsule hydrogel Hb enzyme

IT Enzymes

Hemoglobins

RL: BIOL (Biological study)

(hydrogel microcapsules contg.)

IT Gels

(hydro-, microencapsulation by, of Hb and enzymes)

IT Encapsulation

(micro-, of Hb and enzyme by hydrogels)

IT 24979-70-2 **26780-21-2**

RL: BIOL (Biological study)

(microencapsulation by, of Hb)

IT 26780-21-2

RL: BIOL (Biological study)

(microencapsulation by, of Hb)

RN 26780-21-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7

CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● Cl-

L47 ANSWER 45 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1985:87722 HCAPLUS

DOCUMENT NUMBER:

102:87722

TITLE:

SOURCE:

Recording paper for thermal transfer

PATENT ASSIGNEE(S):

Konishiroku Photo Industry Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59064393	A2	19840412	JP 1982-175992	19821005
JP 04007318	B4	19920210		

PRIORITY APPLN. INFO.: JP 1982-175992 19821005 The title paper is used for accepting selective thermal transfer of color images by laying it on a transfer paper that has a supported color layer contq. a colorant which is solid or semisolid at room temp. and by application of heat. The recording paper has a layer consisting of a polymer contg. the repeating unit having the general formula -CH2C(R)(ZnZ1R1)- (where R = H, C1-6 alkyl; Z = C1-6 alkylene, C6-10 arylene, C7-11 arylenealkylene, CO2R2, CONHR2; R2 = groups described for Z; Z2 = SO2, CO, OCO, SO, (NR3CO) m NR3SO2; R3 = H, C1-12 alkyl, C1-12 aryl; m = 1,2; R1 = CH:CHR4, CH2CHR4R5, I; R4 = groups described for R; R5 = groups substituted by nucleophilic reaction; n = 0,1; Z2 = OCO when n = 03). The recording paper provides transferred images having higher d. than usually achieved by methods employing dye transfer. Thus, a homopolymer having the repeating unit II 4 and diacetyl cellulose 8 wt. parts were dissolved in acetone to make 100 parts and coated on a paper support to form a 4 g/m2 layer. A transfer paper was prepd. by

coating a condenser paper sheet with a soln. prepd. by dissolving magenta dye III 3.5 g in acetone 500 mL contg. 2% cellulose acetate to form 2.5 g/m2 layer. The recording paper and the transfer paper were laid together with coated sides inside and heat was applied by ironing from the transfer paper side for 5 s at 200.degree. The obtained image showed d. 1.95 and no deterioration by heat was obsd. The image remained stable without discoloration.

IC B41M005-26

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 42

IT 66822-64-8 71974-69-1 94643-89-7 **94643-91-1 94643-92-2** 94643-93-3 94736-25-1

RL: USES (Uses)

(dye image-receiving layer contg., for thermal-transfer recording paper)

IT 94643-91-1 94643-92-2

RL: USES (Uses)

(dye image-receiving layer contg., for thermal-transfer recording paper)

RN 94643-91-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 1-[[(2-chloroethyl)sulfonyl]methyl]-4-ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 94643-90-0 CMF C11 H13 C1 O2 S

CM 2

CRN 7538-38-7 CMF C12 H18 N . Cl

• c1-

RN 94643-92-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with 2-[(3-chloro-1-oxopropyl)amino]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 66822-69-3 CMF C9 H14 C1 N O3

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH=CH_2$

● cl-

L47 ANSWER 46 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1983:161690 HCAPLUS

DOCUMENT NUMBER:

98:161690

TITLE:

Phase transfer catalyzed crosslinking of linear

polymers

AUTHOR(S):

Hodge, P.; Hunt, B. J.; Waterhouse, J.; Wightman, A. Chem. Dep., Univ. Lancaster, Lancaster, LA1 4YA, UK

CORPORATE SOURCE: SOURCE:

Polymer Communications (1983), 24(3), 70-3

CODEN: POCOEF; ISSN: 0263-6476

Journal English

DOCUMENT TYPE: LANGUAGE:

Linear copolymers contg. benzyl chloride residues [e.g., chloromethylated styrene (60:40 m-p-isomer ratio)-styrene copolymer], or triphenylphosphonium salts or aldehyde residues derived from these, can be crosslinked under phase-transfer-catalyzed conditions by reaction with alkali and diphenols, dialdehydes, or bisphosphonium salts. Among crosslinking agents used were bisphenol A, p-Ph3P+CH2C6H4CH2P+Ph3 2Cl-, and terephthalaldehyde. The polymers, even of low mol.wt., are satisfactorily crosslinked if 10-15% of the repeating units are capable of reacting with the crosslinking agent.

CC 37-6 (Plastics Manufacture and Processing)

85465-04-9 85465-05-0

RL: PRP (Properties)

(phase-transfer-catalyzed crosslinking of, with terephthalaldehyde)

85465-04-9 85465-05-0 TТ

RL: PRP (Properties)

(phase-transfer-catalyzed crosslinking of, with terephthalaldehyde)

85465-04-9 HCAPLUS RN

Phosphonium, [(3-ethenylphenyl)methyl]triphenyl-, chloride, polymer with CN N, N-dimethyl-2-propenamide and [(4-ethenylphenyl)methyl]triphenylphosphoni um chloride (9CI) (CA INDEX NAME)

CM 1 CRN 85465-03-8 CMF C27 H24 P . C1

● Cl-

CM 2

CRN 47562-35-6 CMF C27 H24 P . Cl

• c1-

CM 3

CRN 2680-03-7 CMF C5 H9 N O

RN 85465-05-0 HCAPLUS

CN Phosphonium, [(3-ethenylphenyl)methyl]triphenyl-, chloride, polymer with 1-ethenyl-1H-imidazole and [(4-ethenylphenyl)methyl]triphenylphosphonium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 85465-03-8 CMF C27 H24 P . Cl

• cl-

CM 2

CRN 47562-35-6 CMF C27 H24 P . Cl

● Cl-

CM 3

CRN 1072-63-5 CMF C5 H6 N2

$$N$$
 $CH = CH_2$

L47 ANSWER 47 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1983:99802 HCAPLUS

DOCUMENT NUMBER:

98:99802

TITLE:

Photocell utilizing polymer dye gels

PATENT ASSIGNEE(S):

Tsuchida, Hidetoshi, Japan

SOURCE: Jpn. Tokkyo Koho, 10 pp. CODEN: JAXXAD

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

19820714 JP 1977-50472 19770430

JP 57032992 B4 JP 53135588 A2 A2 19781127

PRIORITY APPLN. INFO.: JP 1977-50472 19770430

An efficient and stable photocell consists of 1st and 2nd electrodes from transparent and nontransparent conductors and a hydrogel film contg. a reducing agent and a polymer dye from a polymer with a cationic group and photooxidn.-redn. dye. The photocell is useful as a solar cell.

IC H01L031-04; H01M014-00

CC 76-5 (Electric Phenomena)

Section cross-reference(s): 52

121-44-8D, reaction product with thionine and polymers 124-09-4D, IT reaction product with thionine and polymers 581-64-6D, reaction product with amines and polymers 51025-73-1D, reaction product with thionine and hexamethylenediamine 65205-88-1D, reaction product with thionine and triethylamine 67236-15-1D, reaction product with thionine and hexamethylenediamine

RL: DEV (Device component use); USES (Uses) (photocells contg.)

67236-15-1D, reaction product with thionine and IThexamethylenediamine

RL: DEV (Device component use); USES (Uses) (photocells contg.)

67236-15-1 HCAPLUS RN

Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with CN oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM

CRN 7538-38-7 CMF C12 H18 N . Cl

● cl-

CM 2

CRN 106-91-2 CMF C7 H10 O3

$$\stackrel{\text{O}}{\stackrel{\text{CH}_2-}{\bigcirc}} \stackrel{\text{O}}{\stackrel{\text{CH}_2}{\parallel}} \stackrel{\text{CH}_2}{\parallel}$$

L47 ANSWER 48 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:591269 HCAPLUS

DOCUMENT NUMBER: 97:191269

TITLE: Electrochromic recording paper

PATENT ASSIGNEE(S): Canon K. K., Japan SOURCE: Jpn. Tokkyo Koho, 8 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57009958	B4	19820224	JP 1974-27849	19740311
PRIORITY APPLN. INFO.	:		JP 1974-27849	19740311

AB Electrorecording materials are described which contain an electrochromic material exhibiting a memory effect and a polarity dependence, and a zeolite type compd. Thus, WO3, Mol. Sieve 13X, and poly(vinyl alc.) were mixed in EtOH and coated on a conductive paper support to give an electrochromic recording sheet.

- IC B41M005-20
- ICA G11B007-24; G11C013-04
- CC 74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- 57-11-4, uses and miscellaneous 64-19-7, uses and miscellaneous 471-34-1, uses and miscellaneous 497-19-8, uses and miscellaneous IT 1304-28-5, uses and miscellaneous 1304-76-3, uses and miscellaneous 1306-19-0, uses and miscellaneous 1308-04-9 1308-38-9, uses and miscellaneous 1309-37-1, uses and miscellaneous 1309-38-2, uses and miscellaneous 1309-48-4, uses and miscellaneous 1309-60-0 1309-64-4, uses and miscellaneous 1313-13-9, uses and miscellaneous 1313-27-5, uses and miscellaneous 1313-96-8 1313-99-1, uses and miscellaneous 1314-06-3 1314-13-2, uses and miscellaneous 1314-27-8 1314-35-8, uses and miscellaneous 1314-61-0 1314-62-1, uses and miscellaneous 1314-68-7 1314-87-0 1314-95-0 1317-36-8, uses and miscellaneous 1317-38-0, uses and miscellaneous 1317-42-6 1318-10-1 1318-95-2 1343-93-7 1344-09-8 1344-48-5 1345-04-6 7236-42-2 7446-07-3 7447-39-4, uses and miscellaneous 7447-40-7, uses and miscellaneous 7631-95-0 7631-99-4, uses and miscellaneous 7646-85-7, uses and miscellaneous 7647-01-0, uses and miscellaneous 7647-14-5, uses and 7647-15-6, uses and miscellaneous 7664-93-9, uses and miscellaneous 7705-08-0, uses and miscellaneous 7718-54-9, uses and miscellaneous miscellaneous 7758-89-6 7758-95-4 7758-98-7, uses and miscellaneous 7761-88-8, uses and miscellaneous 7774-29-0 7779-88-6 7782-91-7783-00-8 7783-03-1 7783-08-6 7783-40-6 7783-90-6, uses and 7779-88-6 7782-91-4 miscellaneous 7783-96-2 7785-23-1 7786-30-3, uses and miscellaneous 7787-47-5 7787-60-2 7789-40-4 7789-47-1 7789-75-5, uses and miscellaneous 7790-30-9 7790-69-4 7790-86-5 7791-12-0 7803-55-6 7803-68-1 9002-89-5 9003-05-8 9003-39-8 10025-82-8 10042-76-9 10049-23-7 10097-28-6 10099-74-8 10101-63-0 10377-66-9 10421-48-4 12002-97-0 12014-74-3 12024-08-7 12024-10-1 12024-21-4 12026-66-3 12027-12-2 12030-14-7 12026-61-0 12028-20-0 12014-74-3 12028-14-7 12028-14-1 1202 10026-12-7 12036-01-0 12038-20-9 12060-00-3D, **solid** solns. with lead zirconate 12060-01-4D, solid solns. with lead titanate 12068-85-8 12125-22-3 12136-26-4 12137-20-1 12137-42-7 12137-99-4 12138-09-9 12172-98-4 12173-10-3 12173-98-7

12251-23-9 12251-32-0 13106-76-8 13138-45-9 13446-49-6 13463-67-7, uses and miscellaneous 13520-62-2 18282-10-5 13453-10-6 20338-08-3 20816-12-0 20820-34-2 25053-27-4 25320-22-3 25322-68-3 18820-29-6 20909-44-8 21908-53-2 25053-27-4 25320-22-3 25322-68-3 26161-33-1 26338-45-4 **26780-21-2** 28826-65-5 38056-78-9 51429-77-7 54452-17-4 62744-35-8 63310-83-8 78723-25-8 82063-34-1 82063-35-2 RL: USES (Uses)

(electrochromic recording paper contq.)

IT26780-21-2

RL: USES (Uses)

(electrochromic recording paper contg.)

RN 26780-21-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

● cl -

L47 ANSWER 49 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1980:8120 HCAPLUS

DOCUMENT NUMBER:

92:8120

TITLE:

Starching agent

INVENTOR(S):

Matsunaga, Kinjiro; Masuda, Shinichi; Nakagawa,

Yunosuke; Tachibana, Kyozaburo

PATENT ASSIGNEE(S):

Kao Soap Co., Ltd., Japan

SOURCE:

Ger. Offen., 84 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2753061	A1	19780601	DE 1977-2753061	19771128
JP 53070191	A2	19780622	JP 1976-143178	19761129
JP 53094688	A2	19780818	JP 1977-6609	19770124
US 4139509	Α	19790213	US 1977-850693	19771111
GB 1589482	Α	19810513	GB 1977-47296	19771114
GB 1589483	Α	19810513	GB 1979-27391	19771114
GB 1589483	Α	19810513	GB 1979-27391	19771114

ES 464506 19790101 19771125 A1 ES 1977-464506 BE 1977-56468 BE 861238 A1 19780316 19771128 FR 2372267 A1 19780623 FR 1977-35913 19771129 FR 2372267 В1 19800620 PRIORITY APPLN. INFO.: JP 1976-143178 19761129 JP 1977-6609 19770124

AB Household starching emulsions with good storage stability and high starching properties are manufd. by emulsion polymg. a vinyl monomer, e.g. vinyl acetate, in the presence of cationic polymers, cationic monomers, or a cationic surfactant in an aq. soln. of poly(vinyl alc.) (I) [9002-89-5] or modified starch or cellulose deriv. Thus, vinyl acetate was polymd. in the presence of I, poly(N-methyl-4-vinylpyridinium chloride) [28826-65-5], and methacryloyloxyethyltrimethylammonium chloride (II) [72199-13-4] in H2O using a free radical initiator to give an emulsion which was storage-stable for 1 mo at room temp., while the same emulsion prepd. in the absence of II sepd.

IC D06M015-04; C08L003-02; C08L001-08

CC 46-3 (Surface Active Agents and Detergents)

IT Polyamides, uses and miscellaneous
Surfactants

(cationic, storage-stable starching emulsions manufd. in presence of)
T79-14-1D, reaction products with diethylenetriamine-fatty
acid-epichlorohydrin adduct 107-64-2 111-40-0D, reaction products with
fatty acids, epichlorohydrin and hydroxyacetic acid 9002-89-5
9003-20-7 9010-88-2 26062-79-3 26161-33-1 26616-35-3
26780-21-2 28826-65-5 51278-03-6 72196-89-5 72198-29-9
72199-13-4 72199-14-5

RL: USES (Uses)

(starching emulsions contq., storage-stable)

IT 26780-21-2

RL: USES (Uses)

(starching emulsions contg., storage-stable)

RN 26780-21-2 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

● cl-

L47 ANSWER 50 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:451385 HCAPLUS

DOCUMENT NUMBER: 89:51385

TITLE:

Color diffusion transfer material

INVENTOR(S):

Sato, Yuzuru; Asano, Masao; Ishihara, Masao; Terada,

Sadatugu

PATENT ASSIGNEE(S):

Konishiroku Photo Industry Co., Ltd., Japan

SOURCE: Ger. Offen., 72 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2728844	A1	19771229	DE 1977-2728844	19770627
JP 53001024	A2	19780107	JP 1976-75200	19760625
JP 58057098	B4	19831219		
US 4142899	Α	19790306	US 1977-808909	19770622
GB 1587734	Α	19810408	GB 1977-26094	19770622
AU 499428	B1	19790412	AU 1977-26408	19770623
PRIORITY APPLN. INFO.	:	JE	1976-75200	19760625

AB A color photog. diffusion-transfer material is described that is composed of a light-sensitive Ag halide recording material and an image-receptor material contg. as mordant a mixed polymer from a monomer contg. .gtoreq.1 F atom 10-60% and CHR:CR1ZN+R2R3R4 X- (R = H or the necessary atoms to form an N-alkylenemaleimido ring with Z; R1 = H or a short chain alkyl, Z = alkylene, allylene, aralkylene, CO2Z1, CONHZ1, or O2CZ1 where Z1 is alkylene; R2, R3, R4 = alkyl, allyl, aryl, or R3 and R4 together with Z can form a heterocycle; X = anion) 40-90%. Some 17 polymers are described. Thus, a color diffusion-transfer material was exposed and then contacted with an image-receptor layer contg. a mordant having the structure I in the presence of an alk. processing soln. to give a color image with a yellow, magenta, and cyan Dmax of 1.21, 1.55, and 1.82, resp., vs. 1.02, 1.25, and 1.21, resp., for a control contq. a mordant having the structure II.

G03C005-54 IC

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT **66209-06-1** 66209-08-3 66209-10-7 66209-12-9 66209-17-4 66209-19-6 **66209-20-9** 66348-02-5 66456-23-3 66456-27-7 RL: USES (Uses)

(mordant, for color diffusion-transfer photog. materials)

ΙT 66209-06-1 66209-20-9

RL: USES (Uses)

(mordant, for color diffusion-transfer photog. materials)

RN66209-06-1 HCAPLUS

Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with CN tetrafluoroethene (9CI) (CA INDEX NAME)

CM1

CRN 7538-38-7

CMF C12 H18 N . C1

$$Me_3+N-CH_2$$
 $CH=CH_2$

● cl-

CM 2

CRN 116-14-3 CMF C2 F4

RN 66209-20-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N,N-dimethyl-2-propenamide and 2,2,3,3-tetrafluoropropyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . Cl

● C1-

CM 2

CRN 7383-71-3 CMF C6 H6 F4 O2

$$\begin{array}{c|c}
o \\
\parallel \\
F_2CH-CF_2-CH_2-O-C-CH==CH_2
\end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

 $\begin{array}{c} \text{O} \\ \parallel \\ \text{Me}_2 \text{N-C-CH----} \text{CH}_2 \end{array}$

L47 ANSWER 51 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1978:434145 HCAPLUS

DOCUMENT NUMBER:

89:34145

TITLE:

Electrophotographic plates having good moisture

resistance and durability

INVENTOR(S):

Tarumi, Noriyoshi; Tamura, Akihiko; Okiso, Shoichi;

Nagayasu, Koichi

PATENT ASSIGNEE(S):

Konishiroku Photo Industry Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

F	PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
-						
Č	JP 52082238	A2	19770709		JP 1975-157316	19751227
Ţ	JP 58024782	В4	19830523			
PRIORI	TY APPLN. INFO.	:		JΡ	1975-157316	19751227
AB N	Moisture resistan	nce and	d durability	of	electrophotog.	plates are

Moisture resistance and durability of electrophotog. plates are improved by providing an intermediate layer (between the photoconductor layer and the support) contg. a compd. having isocyanate groups and another compd. having OH (and/or amino) and quaternary ammonium groups. The intermediate layer is esp. useful for electrophotog. plates using a Cds photoconductor layer. Thus, an Al support was coated (5 .mu. dry) with a soln. contg. I (n:m:p = 35:10:55) 100 and II 7.5 parts (in a 9:1 MeCOEt-MeOH mixt.; 10% solids) and overcoated (25 .mu. dry) with a photoconductor compn. consisting of CdS (av. particle size 1 .mu.) 10, a thermosetting acrylic resin (Daiyanaru HR-116, 50% solids, from Mitsubishi Rayon) 6, and a melamine resin (Nikarakku MS-001, 60% solids; from Sanwa Chem. Co.) 1 g to give an electrophotog. plate. The plate was used continuously (at charge voltage -6 kV, 30.degree., 80% relative humidity, and 20 copies/min) in a magnetic brush development copier to produce .gtoreq.8000 high-quality copies vs. .ltoreq.3000 copies for a control with poly(vinyl alc.) instead of I.

IC G03G005-14

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT **65768-72-1** 65768-73-2 65768-75-4 65768-76-5 65768-77-6

RL: USES (Uses) (cadmium sulfide electrophotog. plate intermediate layer contg.

(cadmium sulfide electrophotog. plate intermediate layer contg. isocyanate and, for improved moisture resistance)

IT 65768-72-1

RL: USES (Uses)

(cadmium sulfide electrophotog. plate intermediate layer contg. isocyanate and, for improved moisture resistance)

RN 65768-72-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with methyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me3^+N-CH_2$$
 $CH=CH_2$

● cl-

CM 2

CRN 80-62-6 CMF C5 H8 O2

$$^{\mathrm{H_2C}}$$
 O \parallel \parallel \parallel $\mathrm{Me-C-C-OMe}$

CM 3

CRN 79-06-1 CMF C3 H5 N O

L47 ANSWER 52 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1978:144296 HCAPLUS

DOCUMENT NUMBER:

88:144296

TITLE:

Antistatic finishing of photographic recording

material

INVENTOR(S):

Nagayasu, Kouichi; Mayama, Masayoshi; Terada,

Sadatugu; Ishihara, Masao

PATENT ASSIGNEE(S):

Konishiroku Photo Industry Co., Ltd., Japan

SOURCE:

Ger. Offen., 49 pp.

CODEN: GWXXBX

DOCUMENT TYPE: LANGUAGE:

Patent German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
		~		_
DE 271 7 998	A1	19771103	DE 1977-2717998 19770422	2
JP 52129520	A2	19771031	JP 1976-45458 19760423	3
JP 57015376	B4	19820330	13700420	
AU 7724449	A1	19781026	AU 1977-24449 19770420)
AU 500865	B2	19790607	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
GB 1535685	A	19781213	GB 1977-16573 19770421	L
PRIORITY APPLN. INFO.	:		JP 1976-45458 19760423	3
AP Ar halida -hata-			25,00123	_

AB Ag halide photog. materials can be given an antistatic finish by treatment with a polymer prepd. from a monomer contg. .gtoreq.1 F atom (10-60%) and CHR:CR1ZN+R2R3R4X-(R = H or the necessary atoms to form an N-alkylenemaleimido ring with Z; R1 = H or short chain alkyl; Z = alkylene, allylene, aralkylene, CO2Z1CONHZ1, O2CZ1, or CONZ1 where Z1 is alkylene; R2, R3, R4 = alkyl, allyl, aryl, or R3 and R4 together with Z can form a heterocycle; X = anion) (40-90%). Some 15 polymers are described. Thus, to a gelatin-Ag(Br,Cl,I) emulsion (gelatin 32, Ag(Br,Cl,I) 96g, AgI 3 and AgCl 80 mol %) was added 30 g I/100 g gelatin along with the usual hardeners, stabilizers, and coating agents. The emulsion was then coated on a support, dried to give a 6.mu. layer, and then stored for 2 h at 25.degree. and 50% relative humidity to show a sp. surface resistance of 1.5 .times. 1010.OMEGA. vs. > 1 .times. 1012 .OMEGA. of a I-free control.

IC G03C001-82

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT **66209-06-1** 66209-07-2 66209-08-3 **66209-09-4** 66209-10-7 66209-11-8 66209-12-9 66209-13-0 66209-16-3 66209-17-4 66209-19-6 **66209-20-9**

RL: USES (Uses)

(antistatic compns. contg., for photog. films)

IT 66209-06-1 66209-09-4 66209-20-9

RL: USES (Uses)

(antistatic compns. contg., for photog. films)

RN 66209-06-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with tetrafluoroethene (9CI) (CA INDEX NAME)

CM]

CRN 7538-38-7 CMF C12 H18 N . Cl

$$Me_3+N-CH_2$$
 $CH==CH_2$

• cl-

CM 2

CRN 116-14-3 CMF C2 F4

RN 66209-09-4 HCAPLUS

CN Pyridinium, 4-ethenyl-1-methyl-, methyl sulfate, polymer with N,N-dimethyl-2-propenamide and 2,2,3,3,4,4,5,5-octafluoropentyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7 CMF C5 H9 N O

CM 2

CRN 355-93-1 CMF C9 H8 F8 O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{F}_2\text{CH}-\text{(CF}_2)_3-\text{CH}_2-\text{O}-\text{C}-\text{C}-\text{Me} \end{array}$$

CM 3

CRN 13423-24-0 CMF C8 H10 N . C H3 O4 S

CRN 45708-68-7 CMF C8 H10 N

CM 5

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 66209-20-9 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with N,N-dimethyl-2-propenamide and 2,2,3,3-tetrafluoropropyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3+N-CH_2$$
 $CH=CH_2$

• c1-

CM 2

CRN 7383-71-3 CMF C6 H6 F4 O2

$$\begin{array}{c} \text{O} \\ || \\ \text{F}_2\text{CH}-\text{CF}_2-\text{CH}_2-\text{O}-\text{C}-\text{CH} == \text{CH}_2 \end{array}$$

CRN 2680-03-7 CMF C5 H9 N O

 $\begin{array}{c} \text{O} \\ || \\ \text{Me}_2 \text{N} - \text{C} - \text{CH} = \text{CH}_2 \end{array}$

L47 ANSWER 53 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1973:529081 HCAPLUS

DOCUMENT NUMBER:

79:129081

TITLE:

Poly(vinyl alcohol) hydrogels for synthetic

67668-80-8

articular cartilage material

AUTHOR(S):

Bray, James C.; Merrill, Edward W.

CORPORATE SOURCE:

Dep. Chem. Eng., Massachusetts Inst. Technol.,

Cambridge, MA, USA

SOURCE:

Journal of Biomedical Materials Research (1973), 7(5),

431-43

CODEN: JBMRBG; ISSN: 0021-9304

DOCUMENT TYPE: LANGUAGE:

Journal English

AB A synthetic articular cartilage material, for use in reconstructive joint surgery, and with the properties of poly(vinyl alc.) (PVA)

hydrogels reinforced by cryst. was developed. Cationic PVA
hydrogels provide the low friction lubrication necessary in a

cartilage prosthesis when in contact with natural synovial fluid.

CC 63-7 (Pharmaceuticals)

ST polyvinyl alc artificial cartilage; **hydrogel** polyvinyl alc cartilage

IT 9002-89-5 50885-95-5 **51109-52-5** RL: BIOL (Biological study)

(hydrogels, as artificial cartilage, synovial fluid in relation to)

IT 51109-52-5

RL: BIOL (Biological study)

(hydrogels, as artificial cartilage, synovial fluid in relation to)

RN 51109-52-5 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, chloride, polymer with ethenol (9CI) (CA INDEX NAME)

CM 1

CRN 7538-38-7 CMF C12 H18 N . C1

$$Me_3^+N-CH_2$$
 $CH=-CH_2$

● cl-

CM 2

CRN 557-75-5 CMF C2 H4 O

 $H_2C = CH - OH$

L47 ANSWER 54 OF 54 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1973:518264 HCAPLUS

DOCUMENT NUMBER:

79:118264

TITLE:

Aspects of three types of hydrogels for

biomedical applications

AUTHOR(S):

Bruck, Stephen D.

CORPORATE SOURCE:

Natl. Heart Lung Inst., Natl. Inst. Health, Bethesda,

MD, USA

SOURCE:

Journal of Biomedical Materials Research (1973), 7(5),

387-404

CODEN: JBMRBG; ISSN: 0021-9304

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

AB A review with 35 refs. Some of the chem. and phys. properties of 3 different hydrogels are analyzed as they relate to biol. compatibility. The importance of the permeability and diffusion coeffs., porosity, and the possible role of quasiorganized water within the hydrogels are emphasized. The biol. environment with its dissolved components such as ions, proteins, carbohydrates, lipids, and enzymes influences the ultimate biol. performance of hydrogels. The biol. performance depends not only on the hydrophilicity of the system but on numerous other parameters including the chem. compn., types and no. of crosslinks, presence of functional groups, quasi-organized water structure, porosity, and the thermodynamic interaction parameters between the components of the biol. environment and the gel. The presence of anionic groups on certain synthetic hydrogel surfaces may be not essential for blood compatibility, provided that such materials are carefully distinguished from other hydrophilic gels.

CC 63-0 (Pharmaceuticals)

ST review hydrogel biomaterial

IT Prosthetic materials and Prosthetics

(hydrogels, biocompatibility of)

IT 9003-05-8 **28088-53-1** 50885-97-7

RL: BIOL (Biological study)

(hydrogels, prosthetic materials, biocompatibility of)

IT 28088-53-1

RL: BIOL (Biological study)

(hydrogels, prosthetic materials, biocompatibility of)

RN 28088-53-1 HCAPLUS

CN Benzenemethanaminium, 4-ethenyl-N,N,N-trimethyl-, homopolymer, salt with 4-ethenylbenzenesulfonic acid homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 49718-56-1

CMF (C12 H18 N)x

CCI PMS

CM 2

CRN 46231-82-7 CMF C12 H18 N

$$Me_3+N-CH_2$$
 $CH=CH_2$

CM 3

CRN 49718-51-6

CMF (C8 H7 O3 S)x

CCI PMS

CM 4

CRN 46061-72-7 CMF C8 H7 O3 S